

FIG. 1

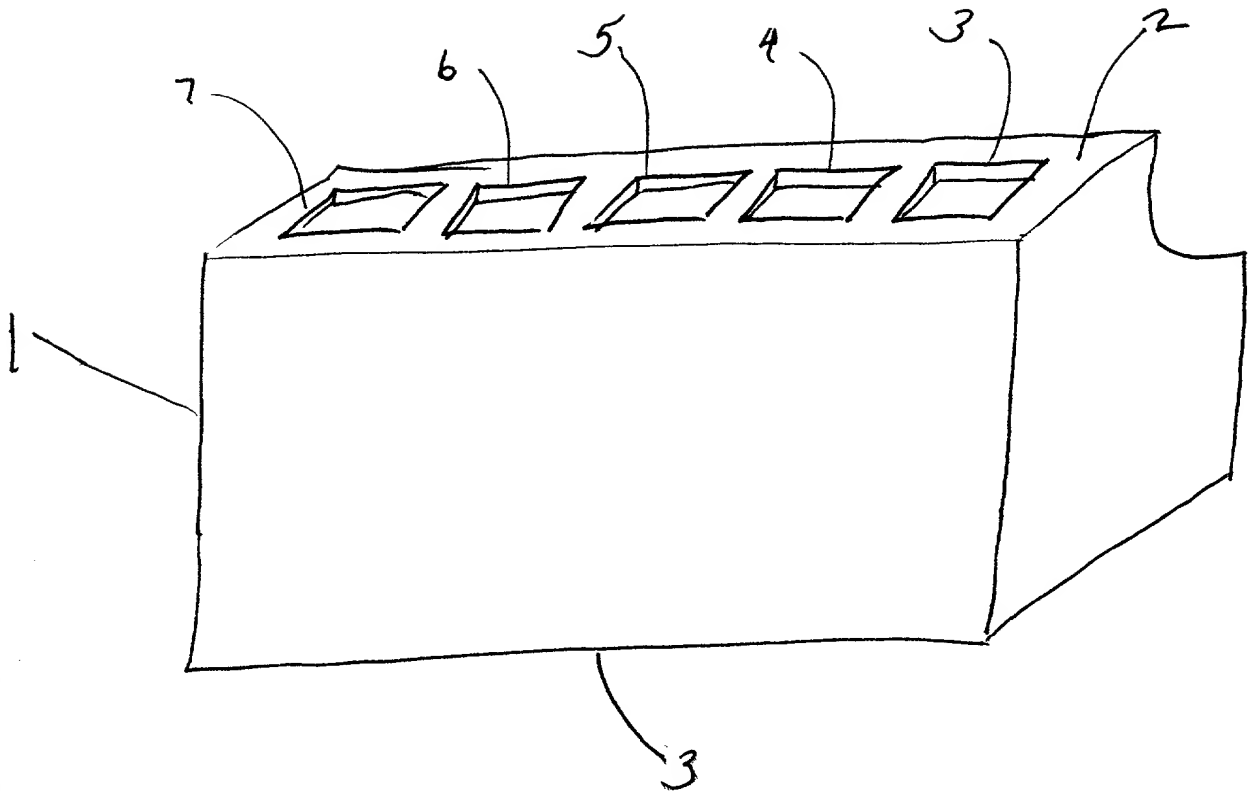
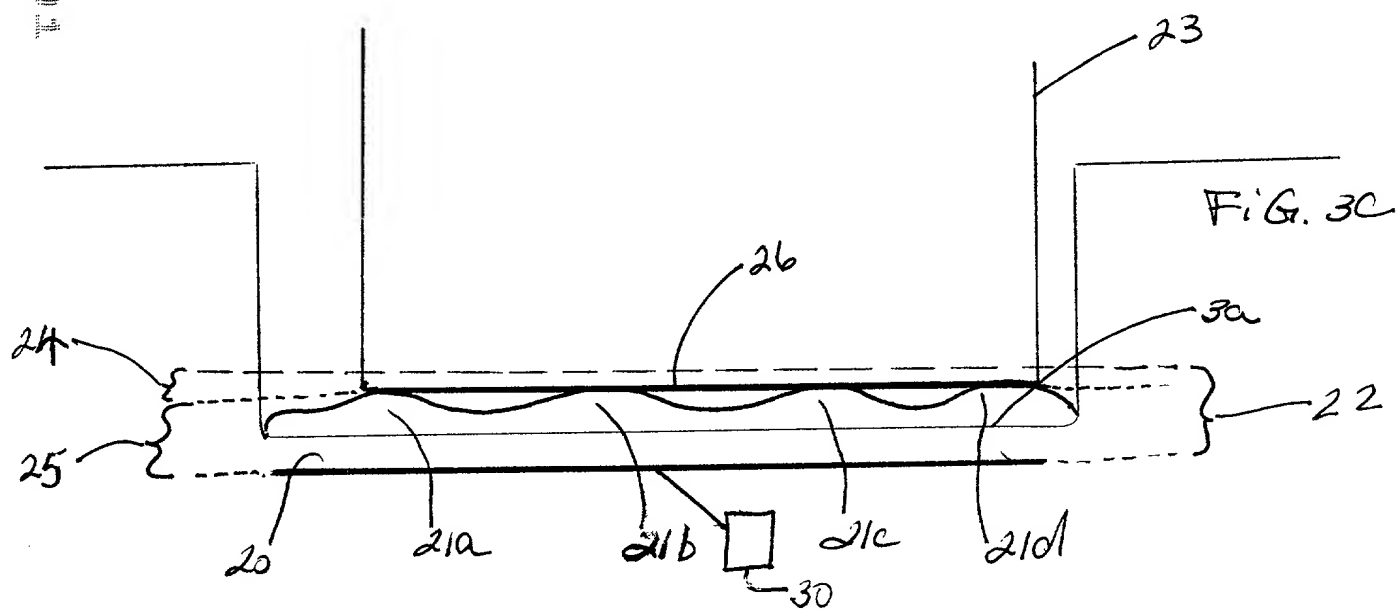
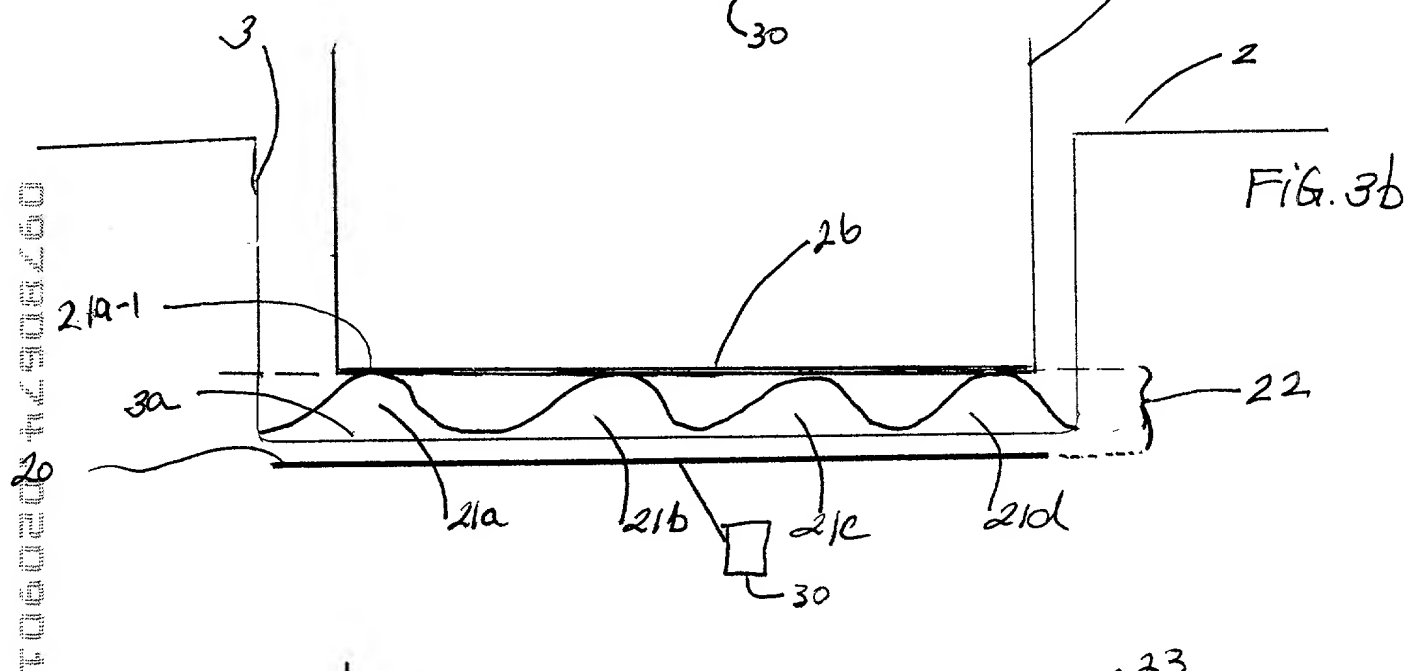
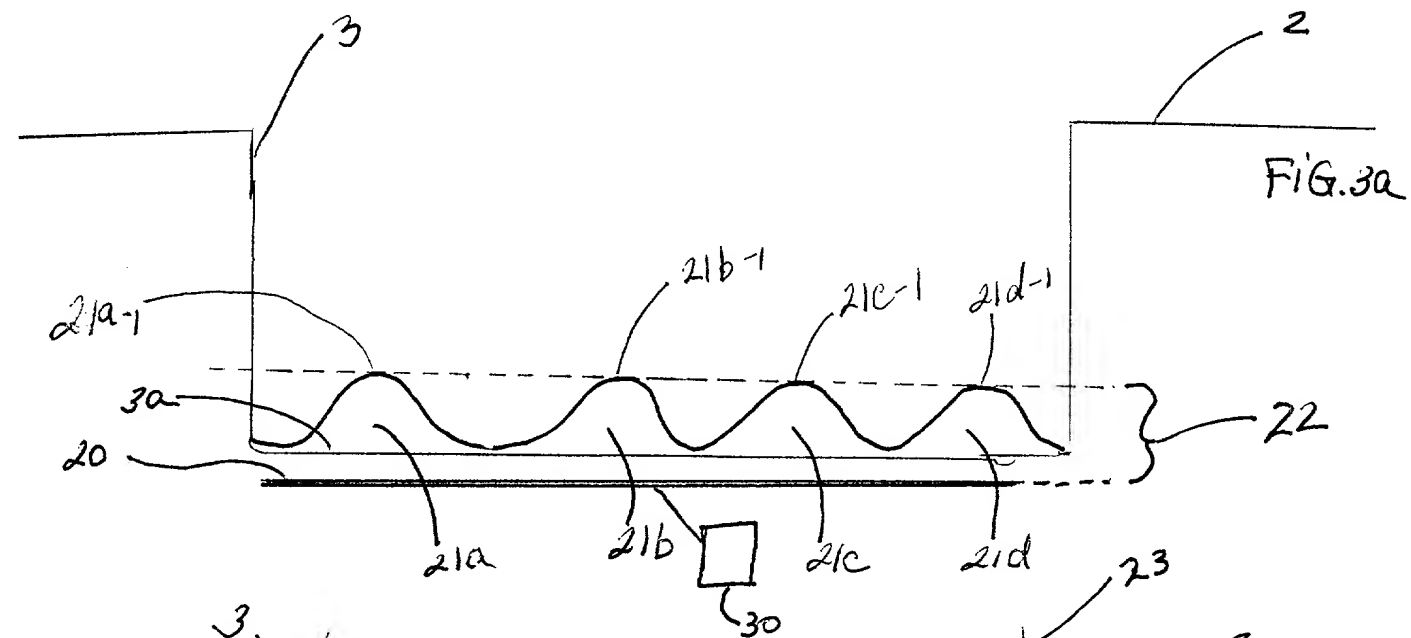


FIG. 2



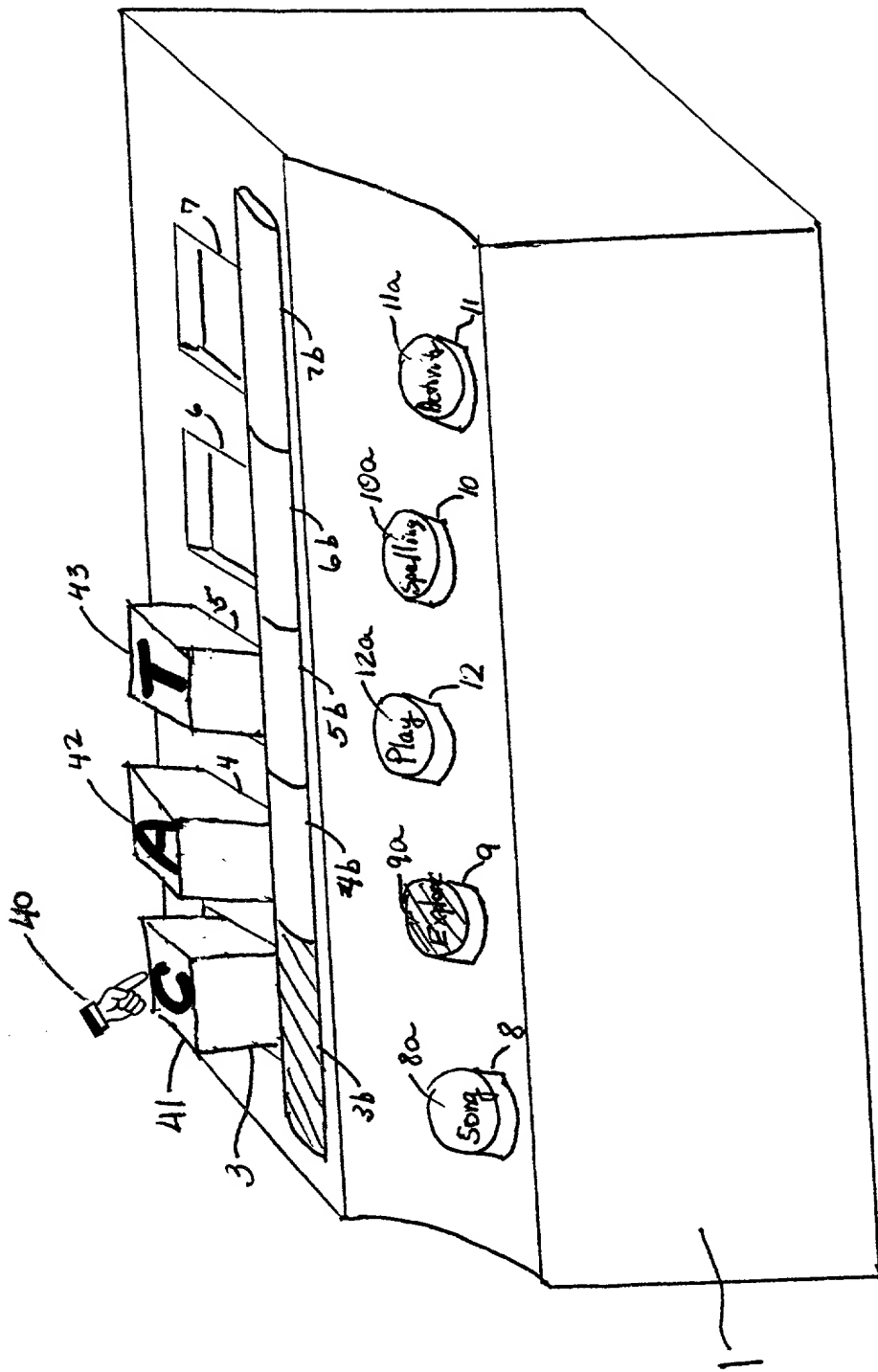


FIG. 40a

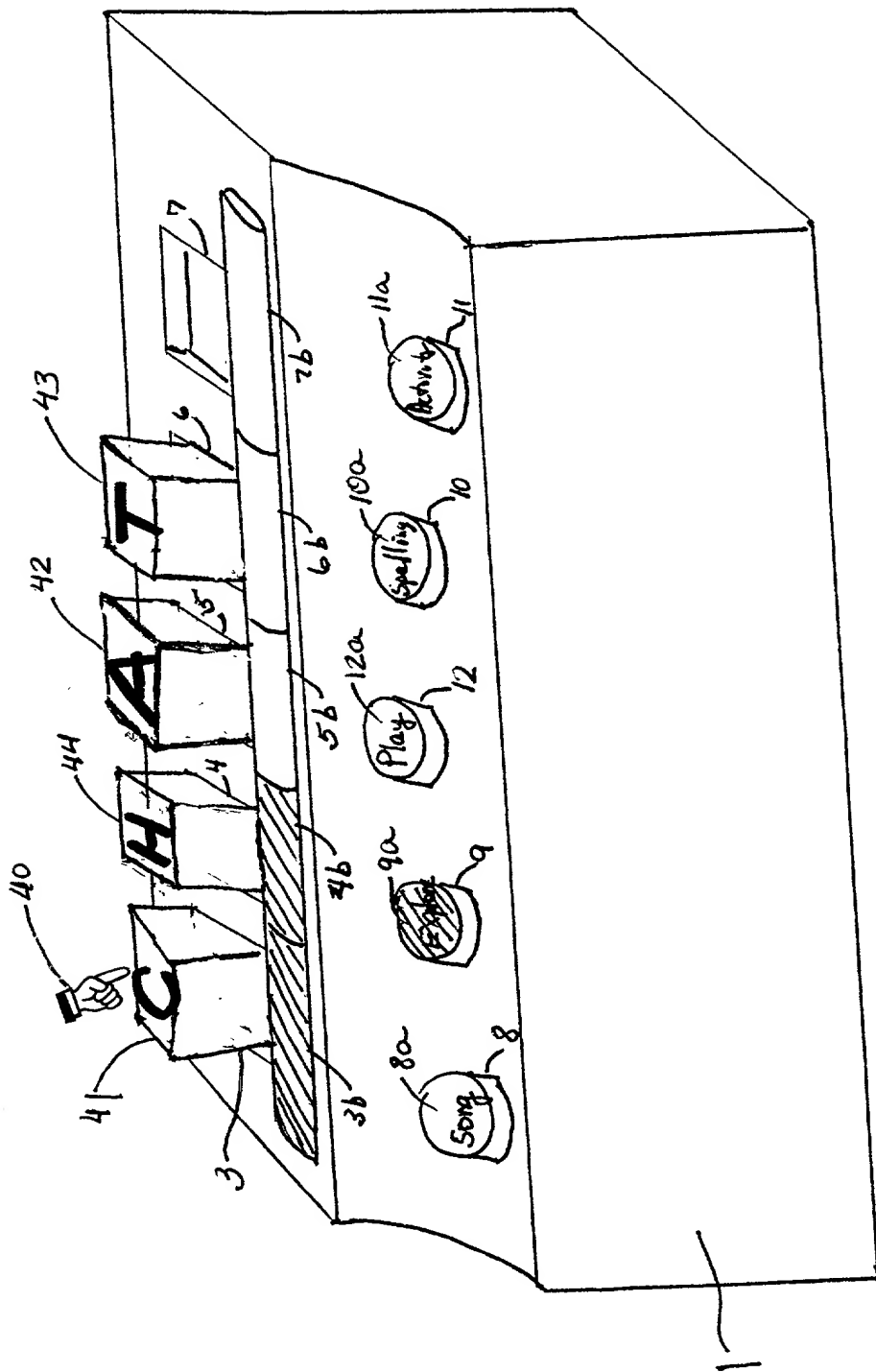


FIG. 4b

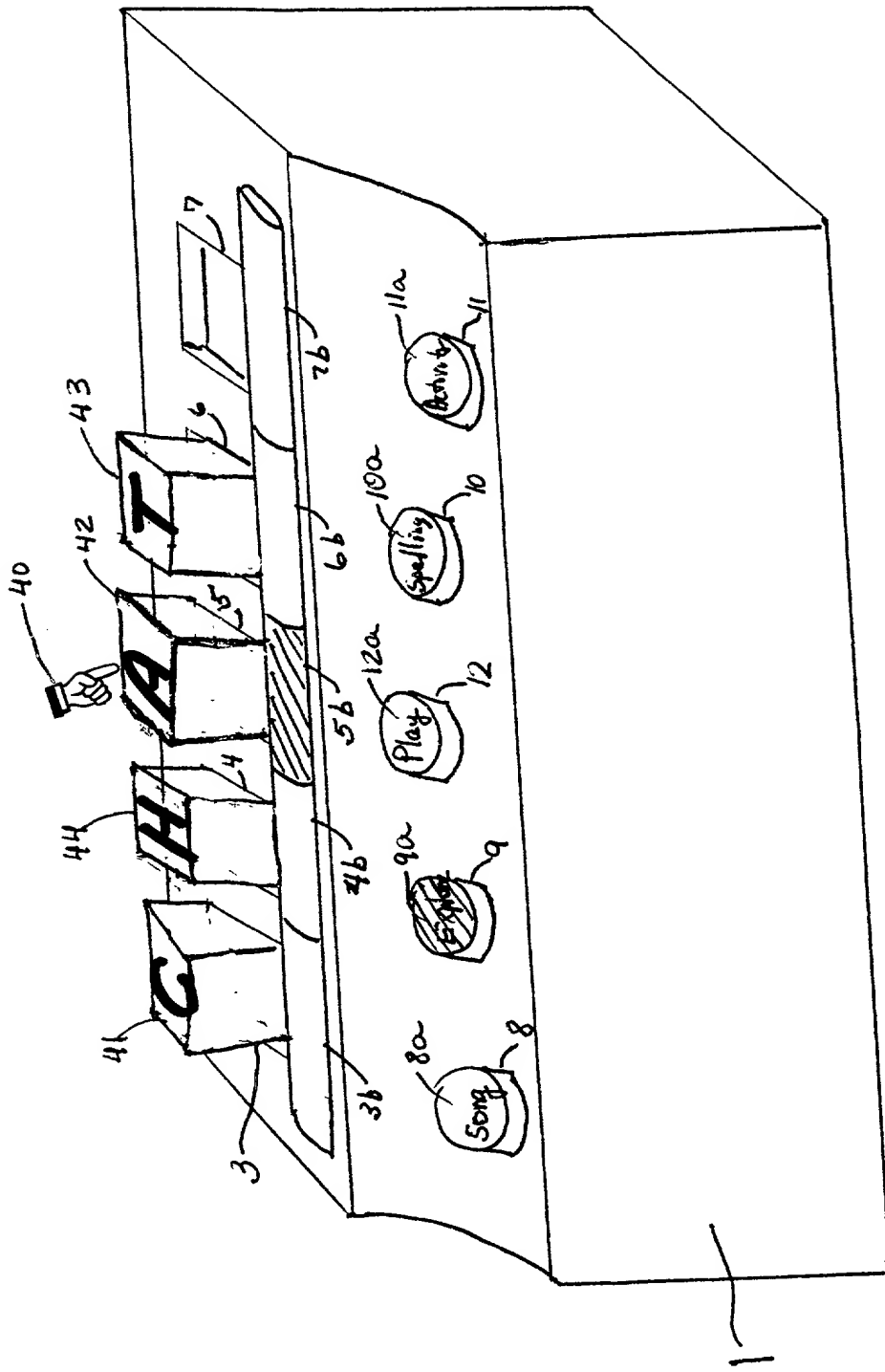


FIG. 4C

FIG. 4d

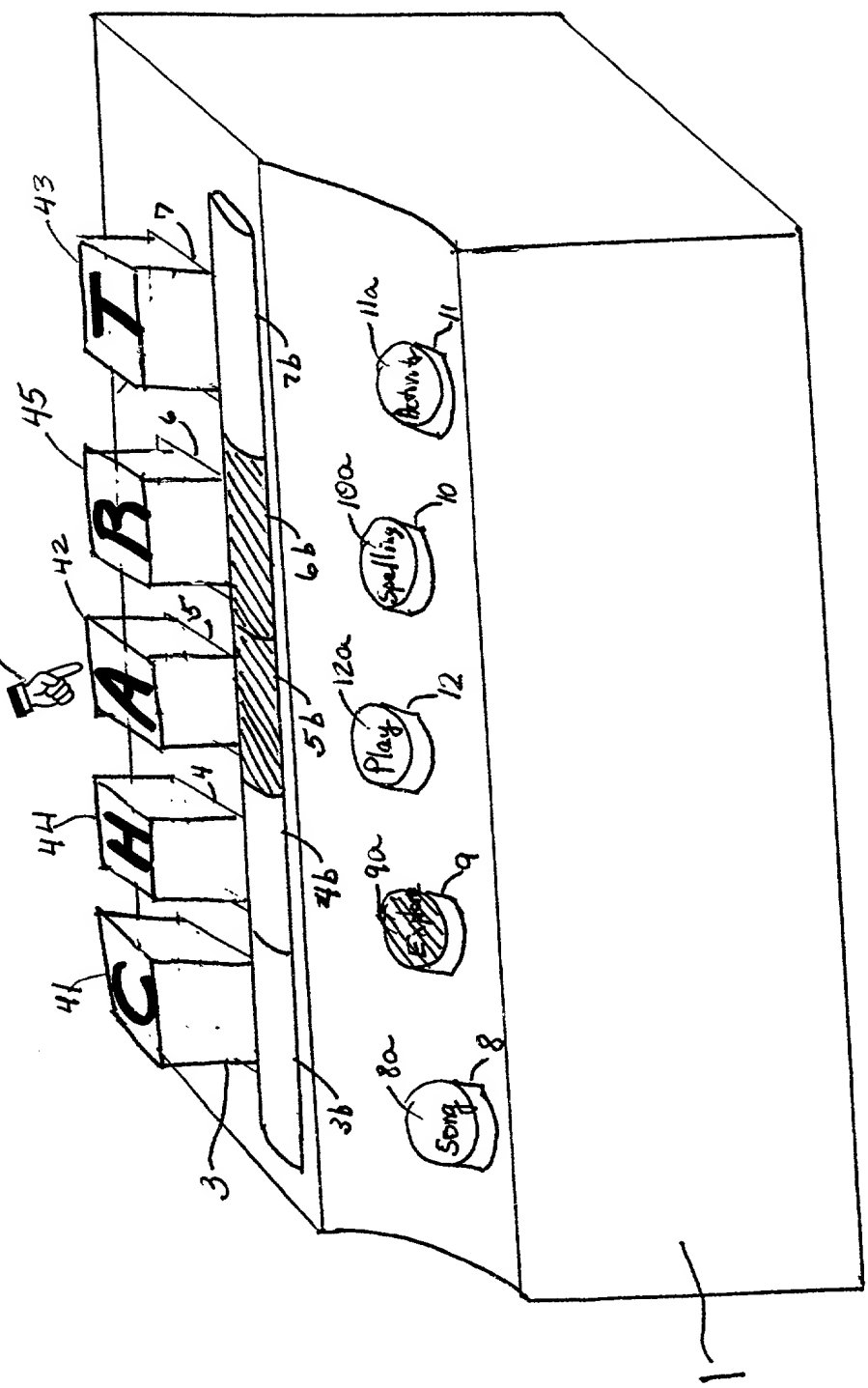
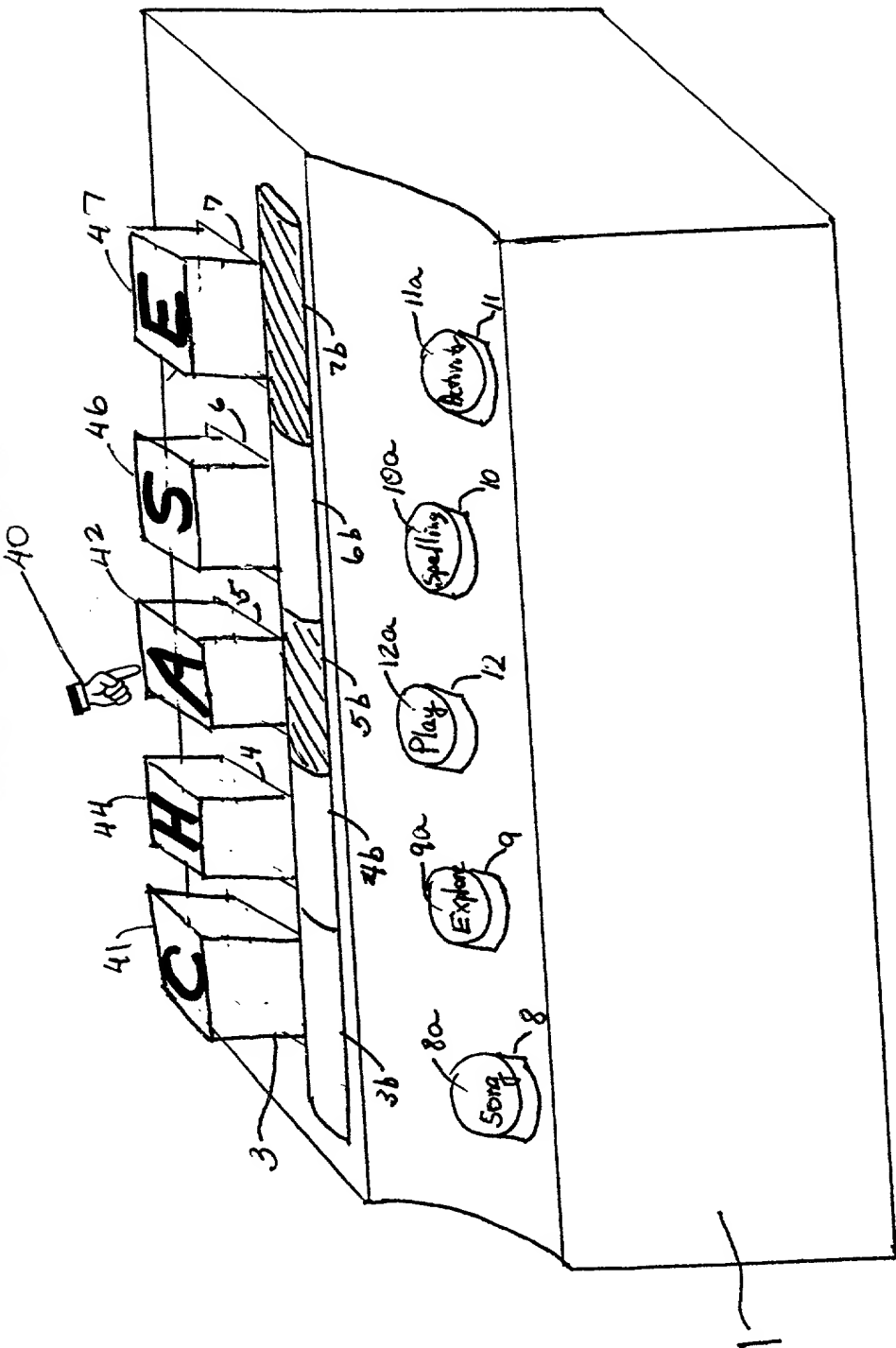


FIG. 4d

FOCUS 42903260



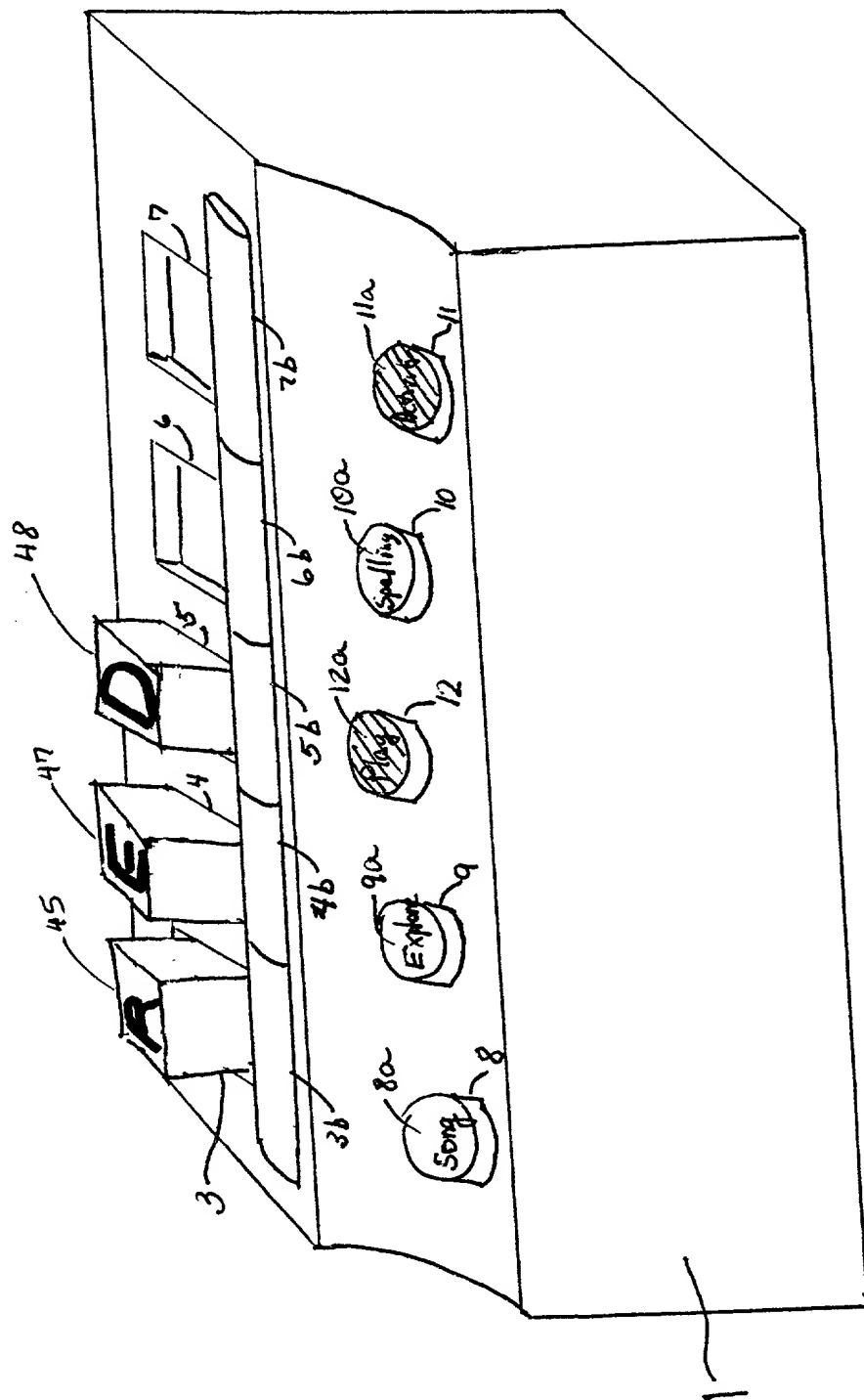


FIG. 5

48

The 44 Sounds of English

100a	0. silence		
101b	Consonant Sounds		Vowel Sounds
101a	1. /b/ (bat)	23. /th/ (the)	
	2. /d/ (dog)	24. /hw/ (wheel)	
	3. /f/ (fan)	25. /ng/ (ring)	
	4. /g/ (gate)	26. /ā/ (cake)	126a
	5. /h/ (hat)	27. /ē/ (feet)	
	6. /j/ (jump)	28. /ī/ (bike)	129b
	7. /k/ (kite)	29. /ō/ (boat)	
	8. /l/ (leaf)	30. /yōō/ (cube)	
	9. /m/ (mop)	31. /a/ (cat)	
	10. /n/ (nest)	32. /e/ (bed)	
113b	11. /p/ (pig)	33. /i/ (fish)	
113a	12. /r/ (rock)	34. /o/ (lock)	
	13. /s/ (sun)	35. /u/ (duck)	
	14. /t/ (top)	36. /ə/ (alarm)	
	15. /v/ (vase)	37. /ā/ (chair)	
	16. /w/ (wagon)	38. /ū/ (bird)	
119b	17. /y/ (yo-yo)	39. /ā/ (car)	
119a	18. /z/ (zebra)	40. /ō/ (ball)	
	19. /ch/ (cheese)	41. /oi/ (boy)	
	20. /sh/ (shark)	42. /ow/ (house)	
	21. /zh/ (treasure)	43. /ōō/ (moon)	
	22. /th/ (thumb)	44. /ōō/ (book)	
	45. /q/	46. /o/ (won)	47. /x/
		48. /or/ (store)	

FIG. 6

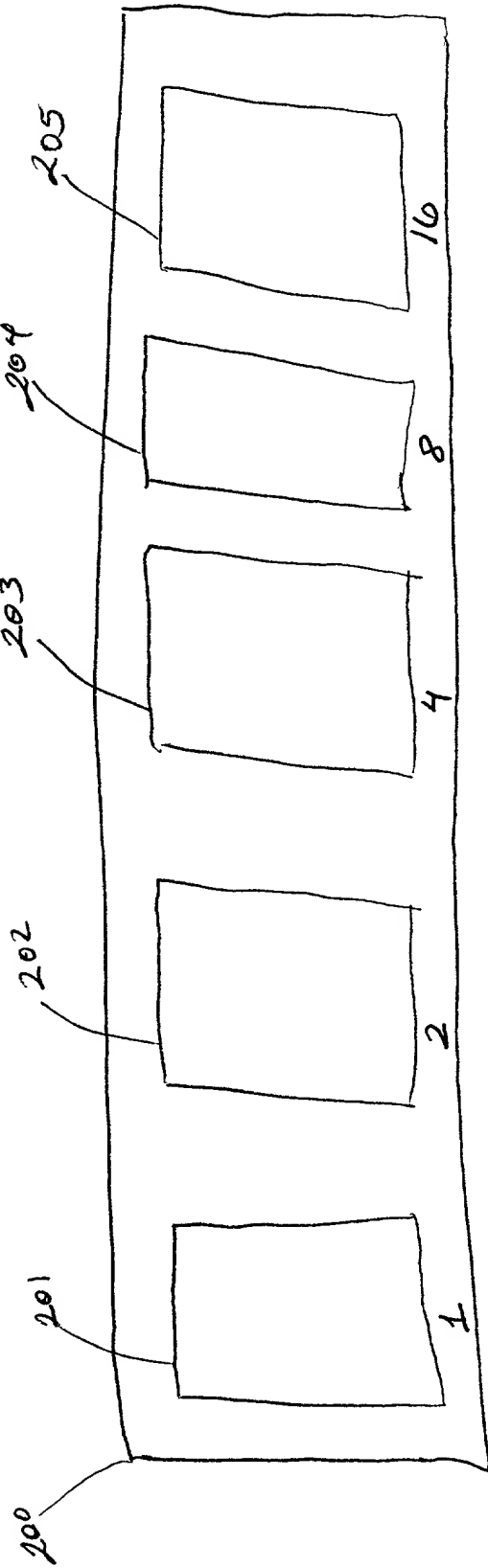


Fig. 7a

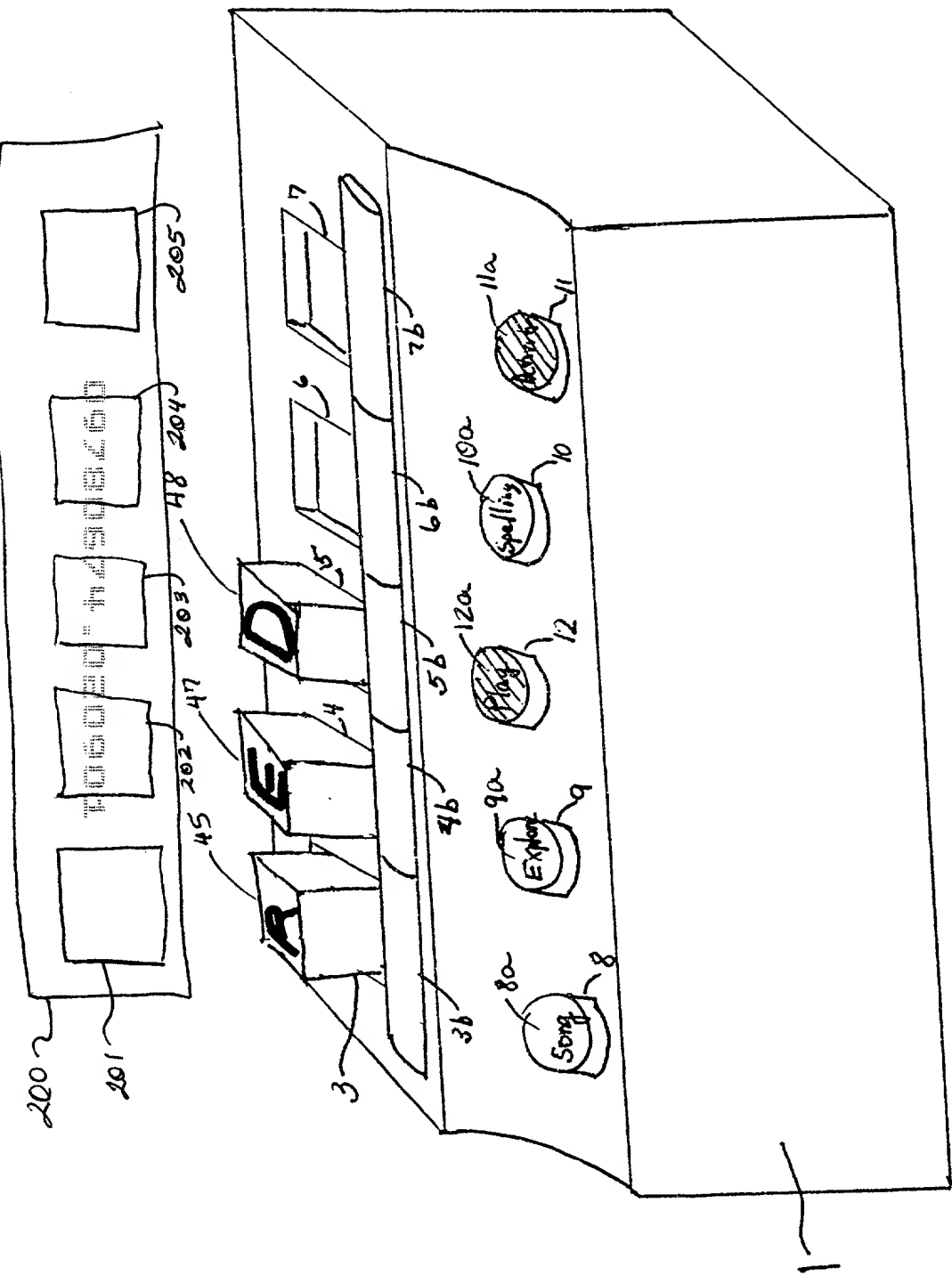
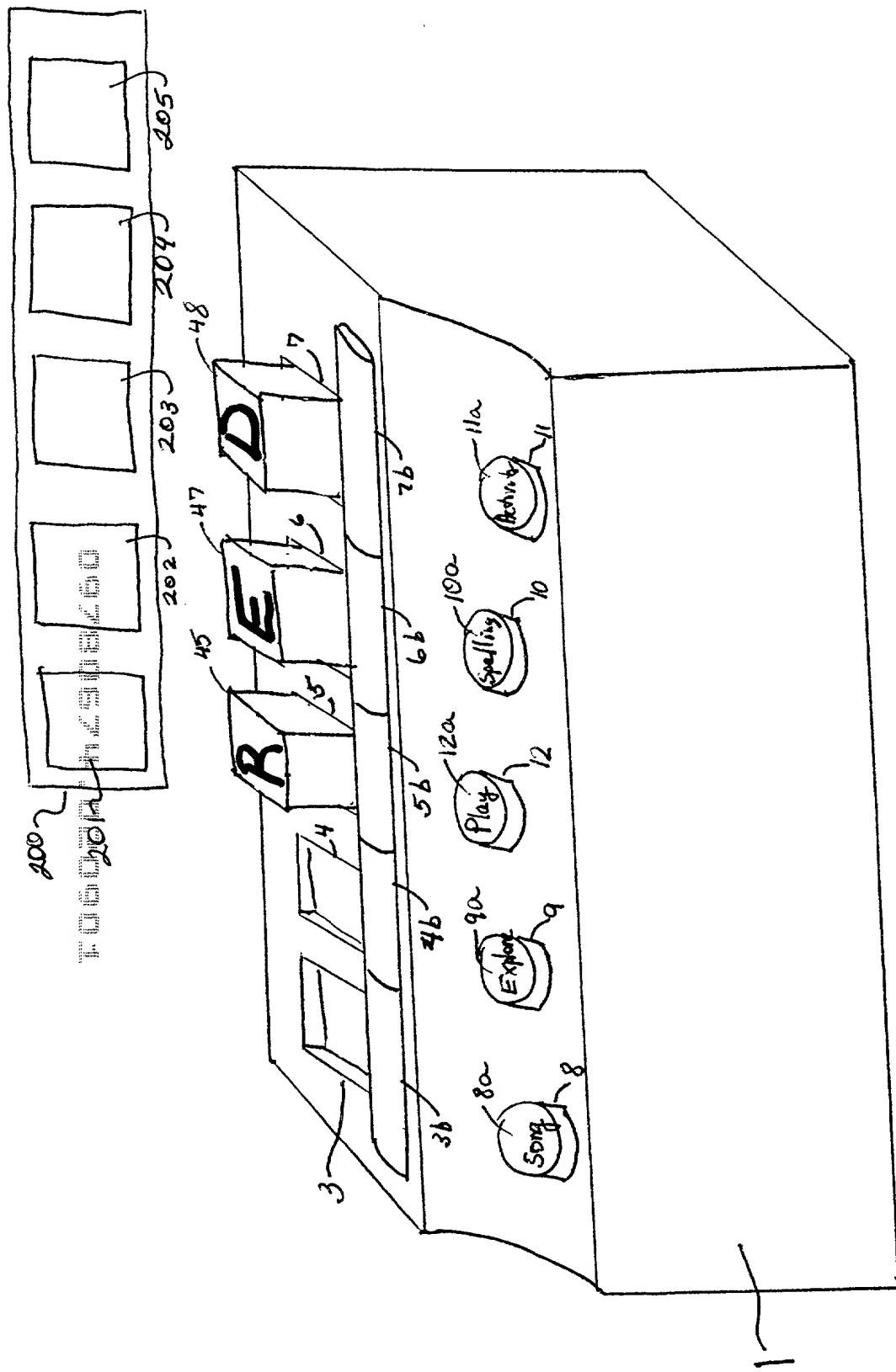


FIG. 7b



1. /worddict 2048 dict dup begin
2. /a ["a" ["26"] ["01"] true] def
3. /i ["i" ["28"] ["01"] true] def
4. /am ["am" ["31" "9"] ["01" "02"] true] def
5. /an ["an" ["31" "10"] ["01" "02"] true] def
6. /as ["as" ["31" "18"] ["01" "02"] true] def
7. /at ["at" ["31" "14"] ["01" "02"] true] def
8. /be ["be" ["1" "27"] ["01" "02"] true] def
9. /by ["by" ["1" "28"] ["01" "02"] true] def
10. /do ["do" ["2" "43"] ["01" "02"] true] def
11. /go ["go" ["4" "29"] ["01" "02"] true] def
12. /he ["he" ["5" "27"] ["01" "02"] true] def
13. /if ["if" ["33" "3"] ["01" "02"] true] def
14. /in ["in" ["33" "10"] ["01" "02"] true] def
15. /is ["is" ["33" "18"] ["01" "02"] true] def
16. /it ["it" ["33" "14"] ["01" "02"] true] def
17. /me ["me" ["9" "27"] ["01" "02"] true] def
18. /my ["my" ["9" "28"] ["01" "02"] true] def
19. /no ["know" ["10" "29"] ["01" "02"] true] def
20. /of ["of" ["36" "15"] ["01" "02"] true] def
21. /on ["on" ["34" "10"] ["01" "02"] true] def
22. /or ["or" ["29" "12"] ["01" "02"] true] def
23. /ox ["ox" ["34" "47"] ["01" "02"] true] def
24. /so ["sew" ["13" "29"] ["01" "02"] false] def
25. /to ["to" ["14" "43"] ["01" "02"] true] def
26. /up ["up" ["35" "11"] ["01" "02"] true] def
27. /us ["us" ["35" "13"] ["01" "02"] true] def
28. /we ["we" ["16" "27"] ["01" "02"] true] def
29. /ace ["ace" ["26" "13" "0"] ["05" "02" "05"] true] def
30. /act ["act" ["31" "7" "14"] ["01" "02" "04"] true] def
31. /age ["age" ["26" "6" "0"] ["05" "02" "05"] true] def
32. /ago ["ago" ["36" "4" "29"] ["01" "02" "04"] true] def
33. /air ["air" ["37" "37" "12"] ["03" "03" "04"] true] def
34. /all ["all" ["40" "8" "8"] ["01" "02" "04"] true] def
35. /and ["and" ["31" "10" "2"] ["01" "02" "04"] true] def
36. /ant ["ant" ["31" "10" "14"] ["01" "02" "04"] true] def
37. /any ["any" ["32" "10" "27"] ["01" "02" "04"] true] def
38. /ape ["ape" ["26" "11" "0"] ["05" "02" "05"] true] def
39. /are ["are" ["39" "12" "0"] ["03" "03" "04"] true] def
40. /arm ["arm" ["39" "12" "9"] ["03" "03" "04"] true] def
41. /art ["art" ["39" "12" "14"] ["03" "03" "04"] true] def
42. /ask ["ask" ["31" "13" "7"] ["01" "02" "04"] true] def
43. /ate ["ate" ["26" "14" "0"] ["05" "02" "05"] true] def
44. /bad ["bad" ["1" "31" "2"] ["01" "02" "04"] true] def
45. /bag ["bag" ["1" "31" "4"] ["01" "02" "04"] true] def
46. /bar ["bar" ["1" "39" "12"] ["01" "02" "04"] true] def

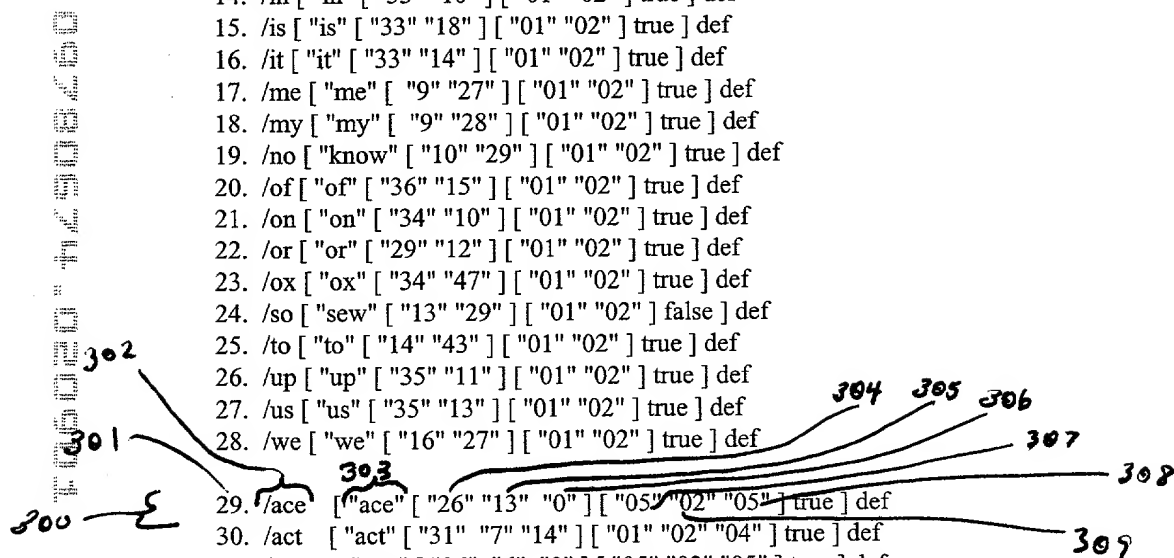


FIG. 8a

47. /bat ["bat" ["1" "31" "14"] ["01" "02" "04"] true] def
48. /bed ["bed" ["1" "32" "2"] ["01" "02" "04"] true] def
49. /bee ["bee" ["1" "27" "27"] ["01" "06" "06"] true] def
50. /bet ["bet" ["1" "32" "14"] ["01" "02" "04"] true] def
51. /big ["big" ["1" "33" "4"] ["01" "02" "04"] true] def
52. /bit ["bit" ["1" "33" "14"] ["01" "02" "04"] true] def
53. /bow ["bow" ["1" "29" "29"] ["01" "06" "06"] true] def
54. /box ["box" ["1" "34" "47"] ["01" "02" "04"] true] def
55. /boy ["boy" ["1" "41" "41"] ["01" "06" "06"] true] def
56. /bud ["bud" ["1" "35" "2"] ["01" "02" "04"] true] def
57. /bug ["bug" ["1" "35" "4"] ["01" "02" "04"] true] def
58. /bun ["bun" ["1" "35" "10"] ["01" "02" "04"] true] def
59. /bus ["bus" ["1" "35" "13"] ["01" "02" "04"] true] def
60. /but ["but" ["1" "35" "14"] ["01" "02" "04"] true] def
61. /buy ["by" ["1" "28" "28"] ["01" "06" "06"] true] def
62. /bye ["by" ["1" "28" "0"] ["01" "06" "06"] true] def
63. /cab ["cab" ["7" "31" "1"] ["01" "02" "04"] true] def
64. /can ["can" ["7" "31" "10"] ["01" "02" "04"] true] def
65. /cap ["cap" ["7" "31" "11"] ["01" "02" "04"] true] def
66. /car ["car" ["7" "39" "12"] ["01" "02" "04"] true] def
67. /cat ["cat" ["7" "31" "14"] ["01" "02" "04"] true] def
68. /cop ["cop" ["7" "34" "11"] ["01" "02" "04"] true] def
69. /cow ["cow" ["7" "42" "42"] ["01" "06" "06"] true] def
70. /cry ["cry" ["7" "12" "28"] ["01" "02" "04"] true] def
71. /cup ["cup" ["7" "36" "11"] ["01" "02" "04"] true] def
72. /cut ["cut" ["7" "36" "14"] ["01" "02" "04"] true] def
73. /dad ["dad" ["2" "31" "2"] ["01" "02" "04"] true] def
74. /day ["day" ["2" "26" "26"] ["01" "06" "06"] true] def
75. /den ["den" ["2" "32" "10"] ["01" "02" "04"] true] def
76. /did ["did" ["2" "33" "2"] ["01" "02" "04"] true] def
77. /dig ["dig" ["2" "33" "4"] ["01" "02" "04"] true] def
78. /dog ["dog" ["2" "40" "4"] ["01" "02" "04"] true] def
79. /dot ["dot" ["2" "34" "14"] ["01" "02" "04"] true] def
80. /dry ["dry" ["2" "12" "28"] ["01" "02" "04"] true] def
81. /ear ["ear" ["27" "27" "12"] ["03" "03" "04"] true] def
82. /eat ["eat" ["27" "27" "14"] ["03" "03" "04"] true] def
83. /egg ["egg" ["32" "4" "4"] ["01" "06" "06"] true] def
84. /end ["end" ["32" "10" "2"] ["01" "02" "04"] true] def
85. /eye ["eye" ["28" "28" "0"] ["04" "05" "07"] true] def
86. /fan ["fan" ["3" "31" "10"] ["01" "02" "04"] true] def
87. /far ["far" ["3" "39" "12"] ["01" "02" "04"] true] def
88. /fat ["fat" ["3" "31" "14"] ["01" "02" "04"] true] def
89. /fed ["fed" ["3" "32" "2"] ["01" "02" "04"] true] def
90. /few ["few" ["3" "30" "30"] ["01" "06" "06"] true] def
91. /fit ["fit" ["3" "33" "14"] ["01" "02" "04"] true] def
92. /fix ["fix" ["3" "33" "47"] ["01" "02" "04"] true] def
93. /fly ["fly" ["3" "8" "28"] ["01" "02" "04"] true] def
94. /for ["for" ["3" "29" "12"] ["01" "02" "04"] true] def
95. /fox ["fox" ["3" "34" "47"] ["01" "02" "04"] true] def
96. /fry ["fry" ["3" "12" "28"] ["01" "02" "04"] true] def
97. /fun ["fun" ["3" "36" "10"] ["01" "02" "04"] true] def
98. /fur ["fur" ["3" "38" "12"] ["01" "02" "04"] true] def
99. /gap ["gap" ["4" "31" "11"] ["01" "02" "04"] true] def
100. /get ["get" ["4" "32" "14"] ["01" "02" "04"] true] def

FIG. 8b

```

101./gnu [ "gnu" [ "0" "10" "43" ] [ "03" "02" "04" ] true ] def
102./got [ "got" [ "4" "34" "14" ] [ "01" "02" "04" ] true ] def
103./gum [ "gum" [ "4" "35" "9" ] [ "01" "02" "04" ] true ] def
104./guy [ "guy" [ "4" "28" "28" ] [ "01" "06" "06" ] true ] def
105./had [ "had" [ "5" "31" "2" ] [ "01" "02" "04" ] true ] def
106./ham [ "ham" [ "5" "31" "9" ] [ "01" "02" "04" ] true ] def
107./has [ "has" [ "5" "31" "18" ] [ "01" "02" "04" ] true ] def
108./hat [ "hat" [ "5" "31" "14" ] [ "01" "02" "04" ] true ] def
109./hay [ "hay" [ "5" "26" "26" ] [ "01" "06" "06" ] true ] def
110./hen [ "hen" [ "5" "32" "10" ] [ "01" "02" "04" ] true ] def
111./her [ "her" [ "5" "38" "12" ] [ "01" "02" "04" ] true ] def
112./hey [ "hay" [ "5" "26" "26" ] [ "01" "06" "06" ] false ] def
113./hid [ "hid" [ "5" "33" "2" ] [ "01" "02" "04" ] true ] def
114./him [ "him" [ "5" "33" "9" ] [ "01" "02" "04" ] true ] def
115./hip [ "hip" [ "5" "33" "11" ] [ "01" "02" "04" ] true ] def
116./his [ "his" [ "5" "33" "18" ] [ "01" "02" "04" ] true ] def
117./hit [ "hit" [ "5" "33" "14" ] [ "01" "02" "04" ] true ] def
118./hog [ "hog" [ "5" "34" "4" ] [ "01" "02" "04" ] true ] def
119./hop [ "hop" [ "5" "34" "11" ] [ "01" "02" "04" ] true ] def
120./hot [ "hot" [ "5" "34" "14" ] [ "01" "02" "04" ] true ] def
121./how [ "how" [ "5" "42" "42" ] [ "01" "06" "06" ] true ] def
122./hug [ "hug" [ "5" "35" "4" ] [ "01" "02" "04" ] true ] def
123./hum [ "hum" [ "5" "35" "9" ] [ "01" "02" "04" ] true ] def
124./hut [ "hut" [ "5" "35" "14" ] [ "01" "02" "04" ] true ] def
125./ice [ "ice" [ "28" "13" "0" ] [ "05" "02" "05" ] true ] def
126./ink [ "ink" [ "33" "10" "7" ] [ "01" "02" "04" ] true ] def
127./jam [ "jam" [ "6" "31" "9" ] [ "01" "02" "04" ] true ] def
128./jar [ "jar" [ "6" "39" "12" ] [ "01" "06" "04" ] true ] def
129./jaw [ "jaw" [ "6" "40" "40" ] [ "01" "05" "04" ] true ] def
130./jet [ "jet" [ "6" "32" "14" ] [ "01" "02" "04" ] true ] def
131./job [ "job" [ "6" "40" "1" ] [ "01" "02" "04" ] true ] def
132./jog [ "jog" [ "6" "40" "4" ] [ "01" "02" "04" ] true ] def
133./joy [ "joy" [ "6" "41" "41" ] [ "01" "06" "06" ] true ] def
134./jug [ "jug" [ "6" "35" "4" ] [ "01" "02" "04" ] true ] def
135./key [ "key" [ "7" "27" "27" ] [ "01" "06" "06" ] true ] def
136./kid [ "kid" [ "7" "33" "2" ] [ "01" "02" "04" ] true ] def
137./kit [ "kit" [ "7" "33" "14" ] [ "01" "02" "04" ] true ] def
138./lab [ "lab" [ "8" "31" "1" ] [ "01" "02" "04" ] true ] def
139./lay [ "lay" [ "8" "26" "26" ] [ "01" "06" "06" ] true ] def
140./leg [ "leg" [ "8" "32" "4" ] [ "01" "02" "04" ] true ] def
141./let [ "let" [ "8" "32" "14" ] [ "01" "02" "04" ] true ] def
142./lid [ "lid" [ "8" "33" "2" ] [ "01" "02" "04" ] true ] def
143./lie [ "lie" [ "8" "28" "0" ] [ "01" "06" "06" ] true ] def
144./lip [ "lip" [ "8" "33" "11" ] [ "01" "02" "04" ] true ] def
145./log [ "log" [ "8" "34" "4" ] [ "01" "02" "04" ] true ] def
146./lot [ "lot" [ "8" "34" "14" ] [ "01" "02" "04" ] true ] def
147./mad [ "mad" [ "9" "31" "2" ] [ "01" "02" "04" ] true ] def
148./man [ "man" [ "9" "31" "10" ] [ "01" "02" "04" ] true ] def
149./map [ "map" [ "9" "31" "11" ] [ "01" "02" "04" ] true ] def
150./mat [ "mat" [ "9" "31" "14" ] [ "01" "02" "04" ] true ] def
151./may [ "may" [ "9" "26" "26" ] [ "01" "06" "06" ] true ] def
152./men [ "men" [ "9" "32" "10" ] [ "01" "02" "04" ] true ] def
153./met [ "met" [ "9" "32" "14" ] [ "01" "02" "04" ] true ] def
154./mix [ "mix" [ "9" "33" "47" ] [ "01" "02" "04" ] true ] def

```

FIG. 8c


```

155./mom  [ "mom" [ "9" "34" "9" ] [ "01" "02" "04" ] true ] def
156./moo  [ "moo" [ "9" "43" "43" ] [ "01" "06" "06" ] true ] def
157./mop  [ "mop" [ "9" "34" "11" ] [ "01" "02" "04" ] true ] def
158./mud  [ "mud" [ "9" "35" "2" ] [ "01" "02" "04" ] true ] def
159./mug  [ "mug" [ "9" "35" "4" ] [ "01" "02" "04" ] true ] def
160./nap  [ "nap" [ "10" "31" "11" ] [ "01" "02" "04" ] true ] def
161./net  [ "net" [ "10" "32" "14" ] [ "01" "02" "04" ] true ] def
162./new  [ "new" [ "10" "43" "43" ] [ "01" "06" "06" ] true ] def
163./nod  [ "nod" [ "10" "34" "2" ] [ "01" "02" "04" ] true ] def
164./not  [ "not" [ "10" "34" "14" ] [ "01" "02" "04" ] true ] def
165./now  [ "now" [ "10" "42" "42" ] [ "01" "06" "06" ] true ] def
166./nut  [ "nut" [ "10" "35" "14" ] [ "01" "02" "04" ] true ] def
167./off  [ "off" [ "34" "3" "3" ] [ "01" "06" "06" ] true ] def
168./oil  [ "oil" [ "41" "41" "8" ] [ "03" "03" "04" ] true ] def
169./old  [ "old" [ "29" "8" "2" ] [ "01" "02" "04" ] true ] def
170./one  [ "one" [ "16" "10" "0" ] [ "01" "02" "04" ] true ] def
171./our  [ "our" [ "42" "42" "12" ] [ "03" "03" "04" ] true ] def
172./out  [ "out" [ "42" "42" "14" ] [ "03" "03" "04" ] true ] def
173./owl  [ "owl" [ "42" "42" "8" ] [ "01" "02" "04" ] true ] def
174./own  [ "own" [ "29" "29" "10" ] [ "01" "02" "04" ] true ] def
175./pad  [ "pad" [ "11" "31" "2" ] [ "01" "02" "04" ] true ] def
176./pal  [ "pal" [ "11" "31" "8" ] [ "01" "02" "04" ] true ] def
177./pan  [ "pan" [ "11" "31" "10" ] [ "01" "02" "04" ] true ] def
178./pat  [ "pat" [ "11" "31" "14" ] [ "01" "02" "04" ] true ] def
179./pea  [ "pea" [ "11" "27" "27" ] [ "01" "06" "06" ] true ] def
180./pen  [ "pen" [ "11" "32" "10" ] [ "01" "02" "04" ] true ] def
181./pet  [ "pet" [ "11" "32" "14" ] [ "01" "02" "04" ] true ] def
182./pie  [ "pie" [ "11" "28" "28" ] [ "01" "06" "06" ] true ] def
183./pig  [ "pig" [ "11" "33" "4" ] [ "01" "02" "04" ] true ] def
184./pin  [ "pin" [ "11" "33" "10" ] [ "01" "02" "04" ] true ] def
185./pit  [ "pit" [ "11" "33" "14" ] [ "01" "02" "04" ] true ] def
186./pop  [ "pop" [ "11" "34" "11" ] [ "01" "02" "04" ] true ] def
187./pot  [ "pot" [ "11" "34" "14" ] [ "01" "02" "04" ] true ] def
188./put  [ "put" [ "11" "36" "14" ] [ "01" "02" "04" ] true ] def
189./rag  [ "rag" [ "12" "31" "8" ] [ "01" "02" "04" ] true ] def
190./ram  [ "ram" [ "12" "31" "9" ] [ "01" "02" "04" ] true ] def
191./ran  [ "ran" [ "12" "31" "10" ] [ "01" "02" "04" ] true ] def
192./rap  [ "rap" [ "12" "31" "11" ] [ "01" "02" "04" ] true ] def
193./rat  [ "rat" [ "12" "31" "14" ] [ "01" "02" "04" ] true ] def
194./raw  [ "raw" [ "12" "34" "34" ] [ "01" "06" "06" ] true ] def
195./ray  [ "ray" [ "12" "26" "26" ] [ "01" "06" "06" ] true ] def
196./red  [ "red" [ "12" "31" "2" ] [ "01" "02" "04" ] true ] def
197./rib  [ "rib" [ "12" "33" "1" ] [ "01" "02" "04" ] true ] def
198./rid  [ "rid" [ "12" "33" "2" ] [ "01" "02" "04" ] true ] def
199./rip  [ "rip" [ "12" "33" "11" ] [ "01" "02" "04" ] true ] def
200./rod  [ "rod" [ "12" "34" "2" ] [ "01" "02" "04" ] true ] def
201./rot  [ "rot" [ "12" "34" "14" ] [ "01" "02" "04" ] true ] def
202./row  [ "row" [ "12" "29" "29" ] [ "01" "06" "06" ] true ] def
203./rub  [ "rub" [ "12" "35" "1" ] [ "01" "02" "04" ] true ] def
204./rug  [ "rug" [ "12" "35" "4" ] [ "01" "02" "04" ] true ] def
205./run  [ "run" [ "12" "35" "10" ] [ "01" "02" "04" ] true ] def
206./sad  [ "sad" [ "13" "31" "2" ] [ "01" "02" "04" ] true ] def
207./sat  [ "sat" [ "13" "31" "14" ] [ "01" "02" "04" ] true ] def
208./saw  [ "saw" [ "13" "40" "40" ] [ "01" "06" "06" ] true ] def

```

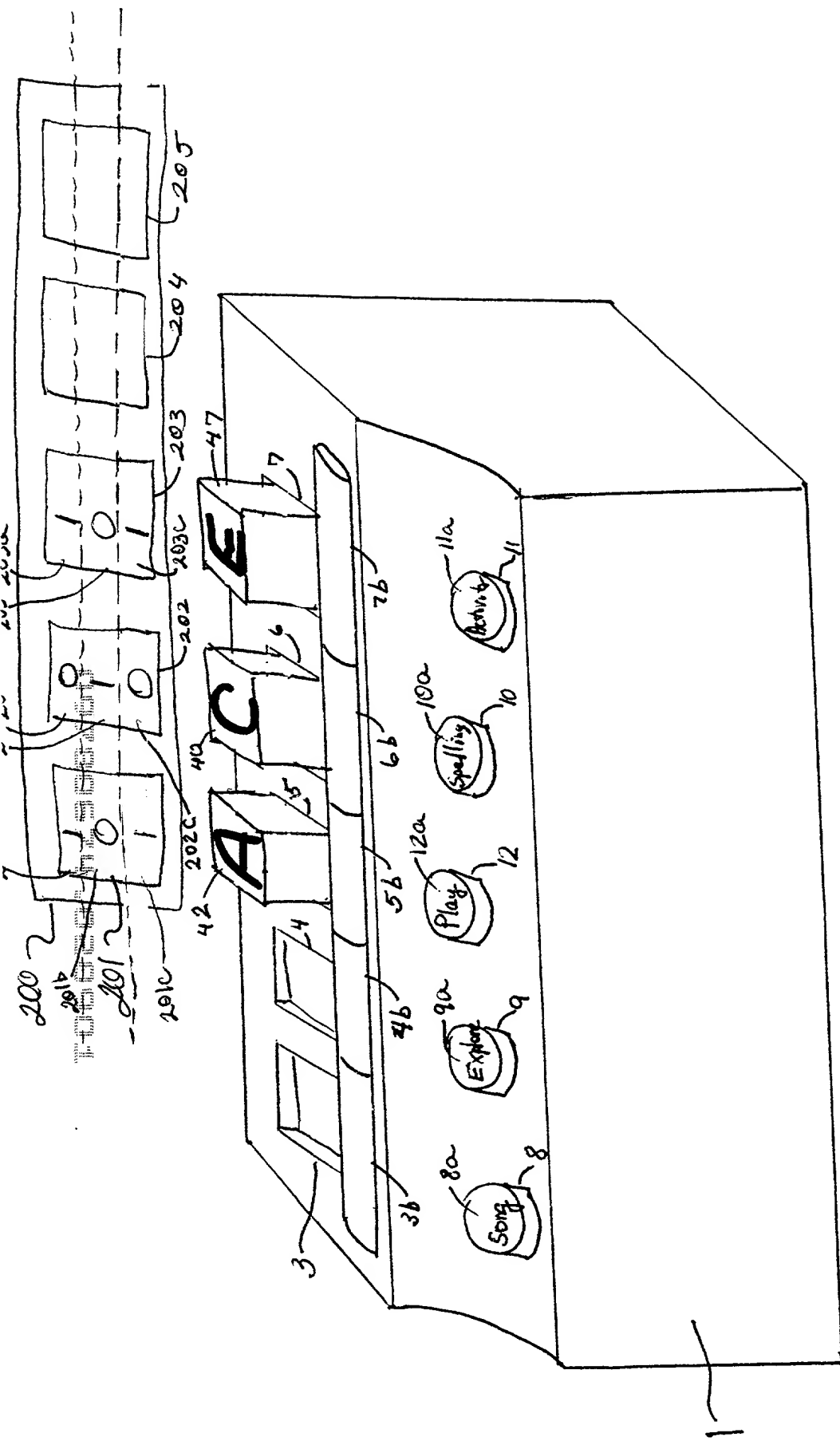


FIG. 9

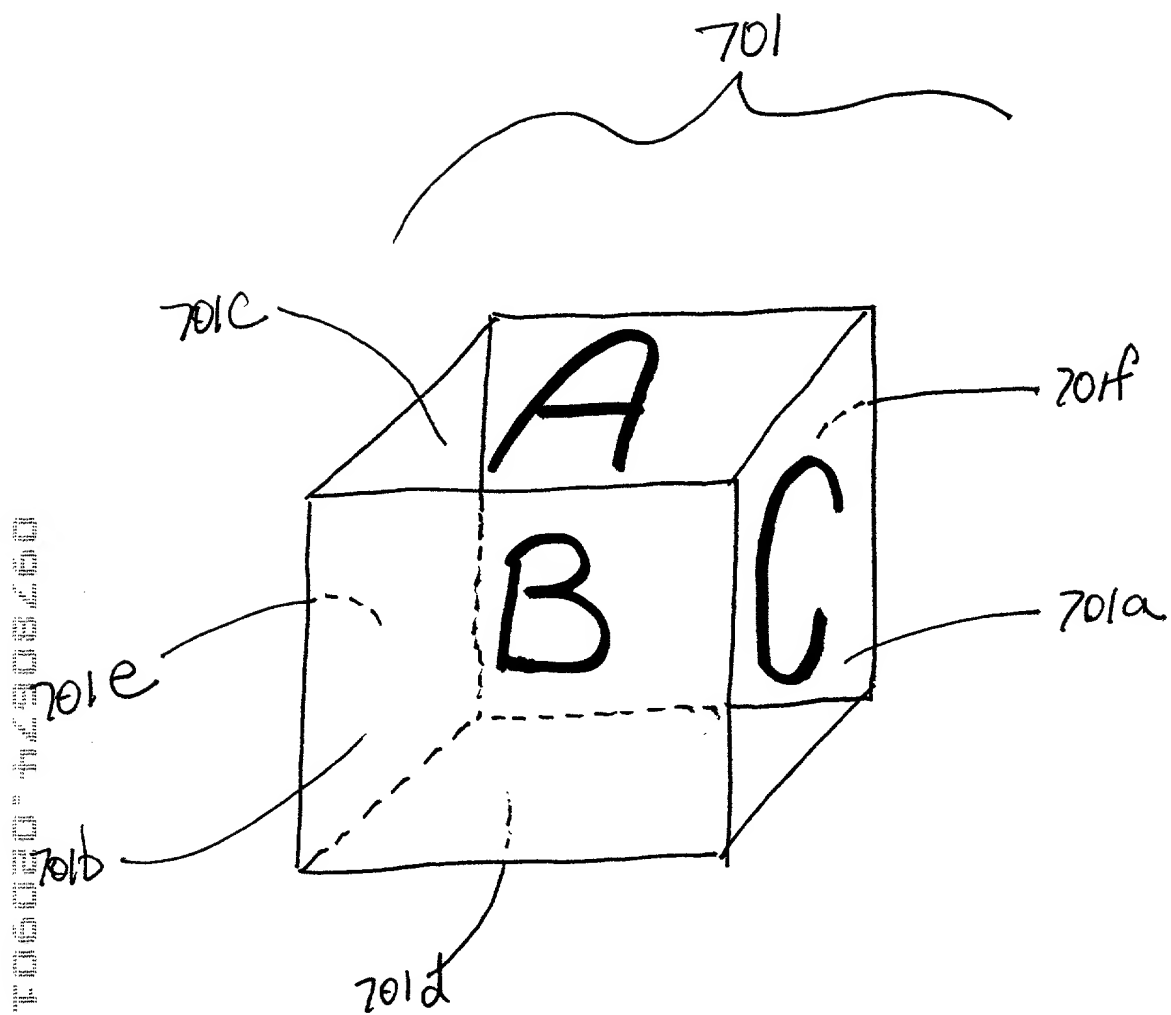


FIG. 10

FIG. 11a

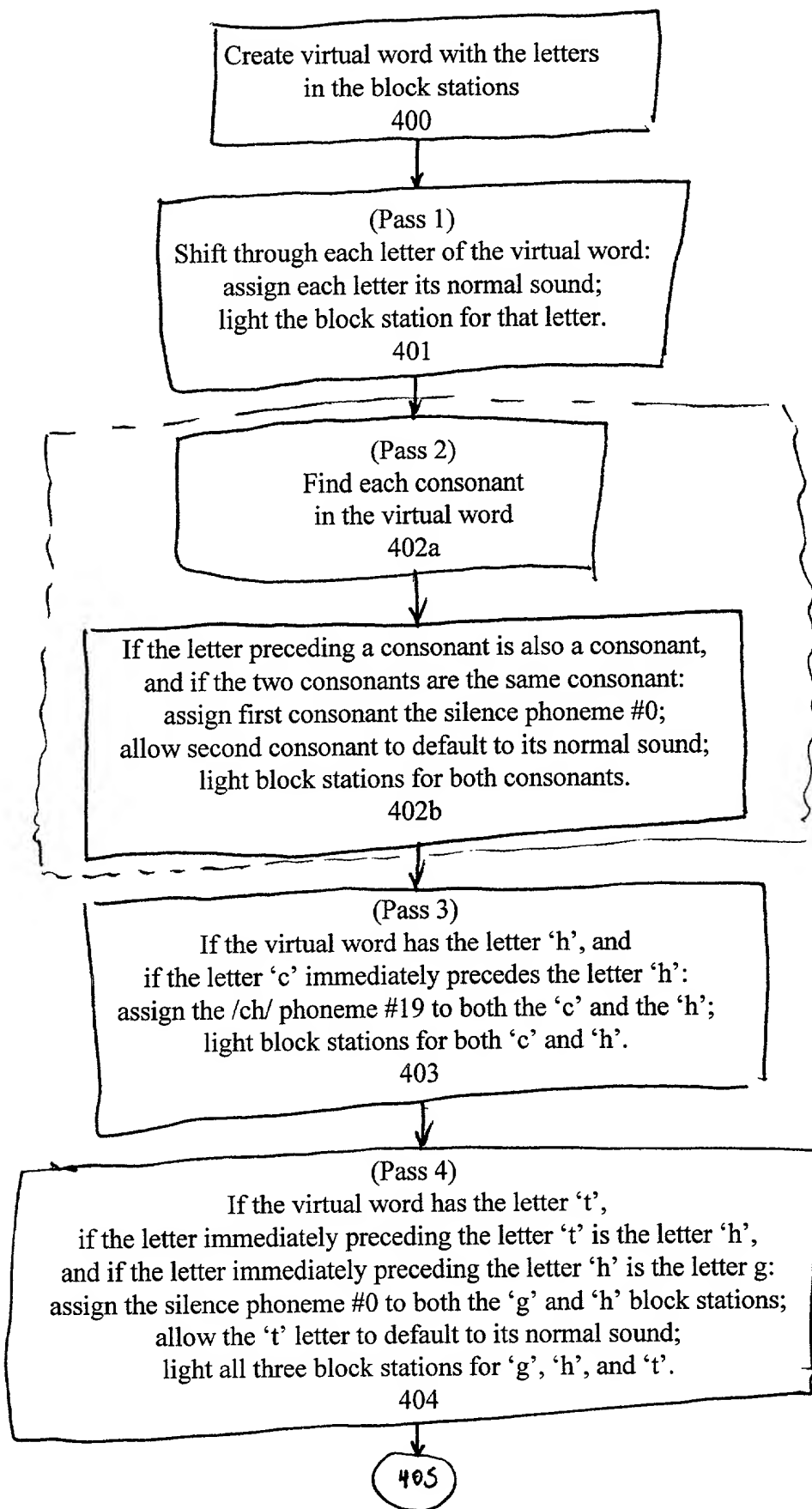


FIG. 11a

FIG. 11b

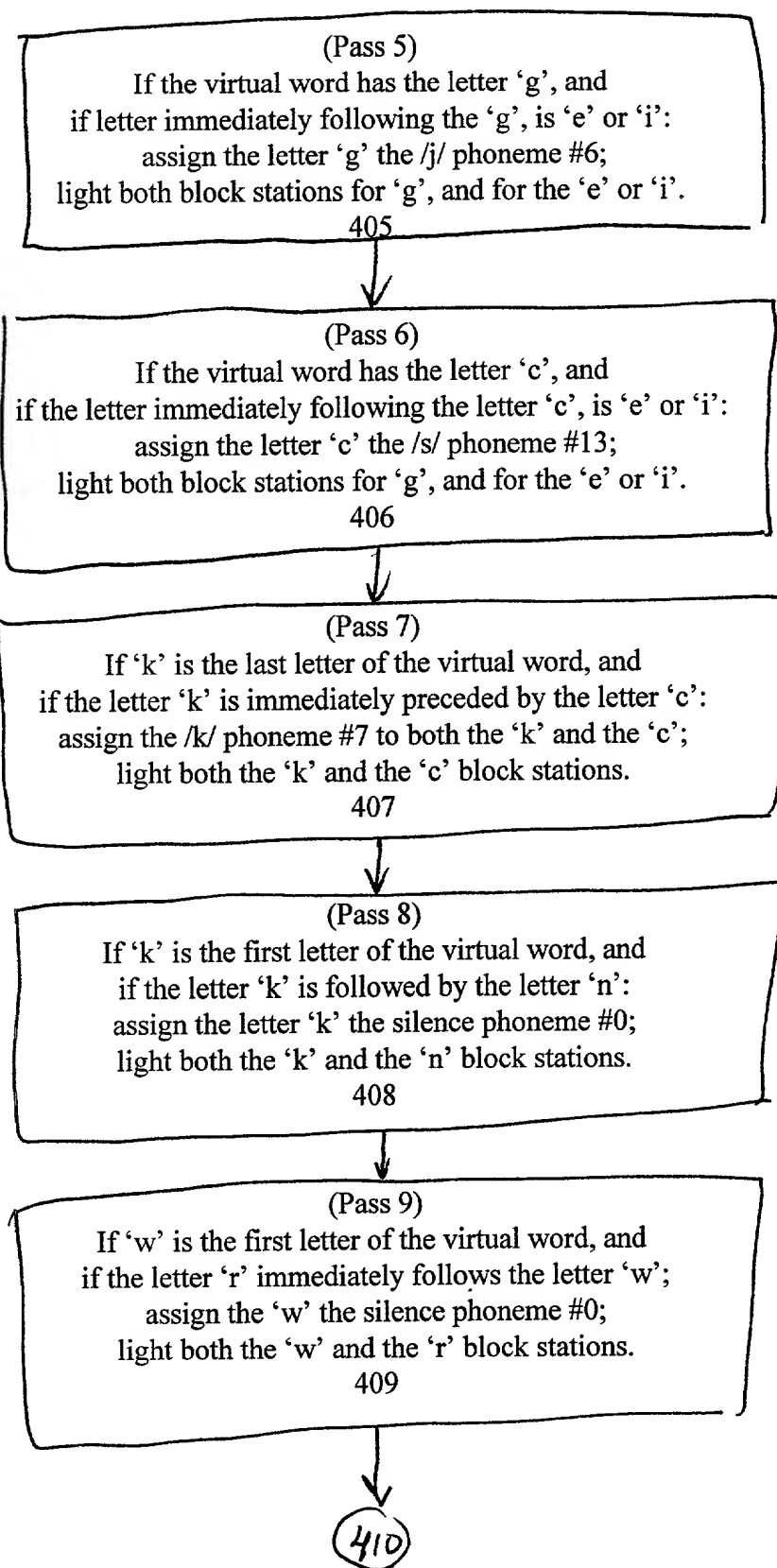


FIG. 11b

FIG. 11C

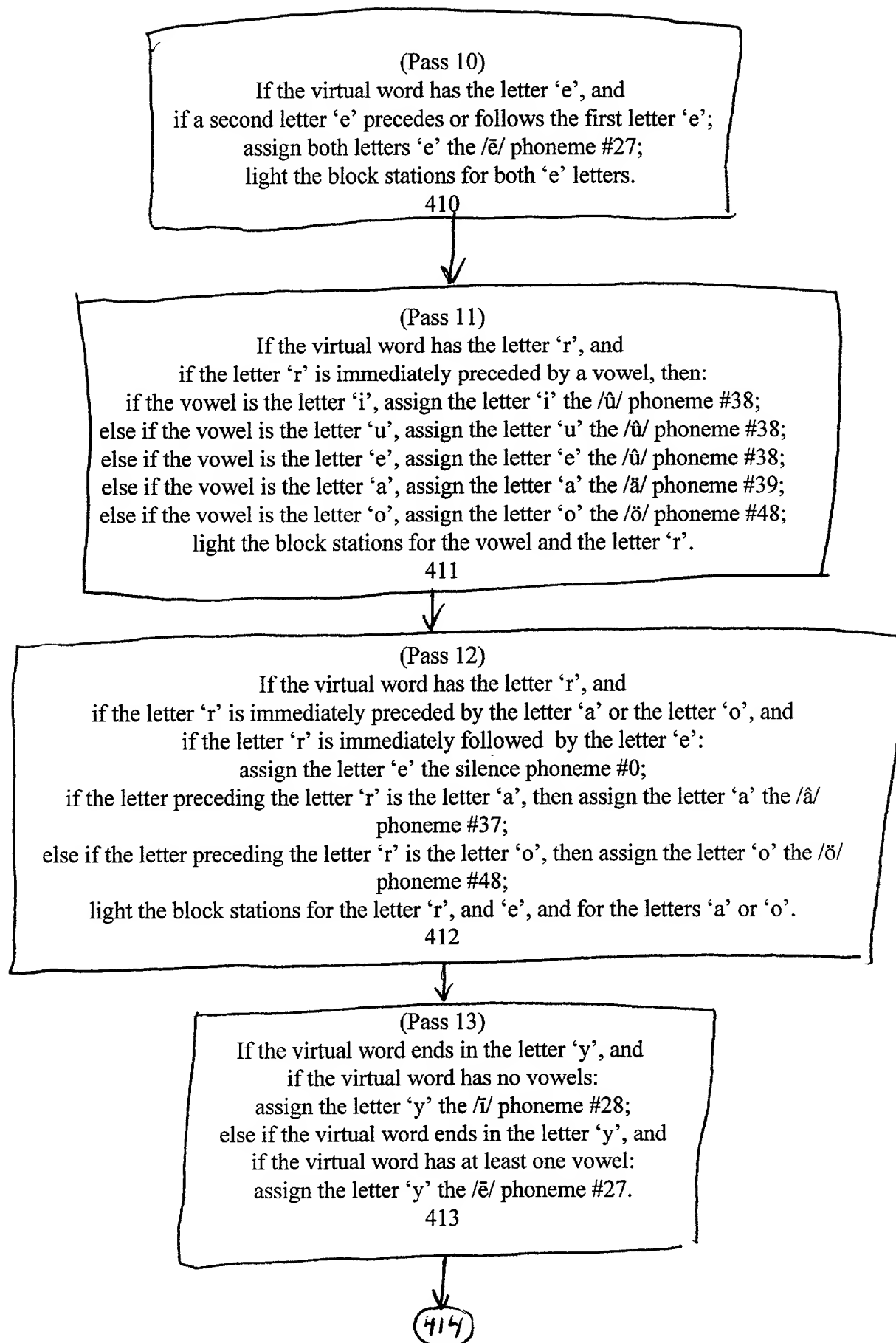


FIG. 11c

443034-0000

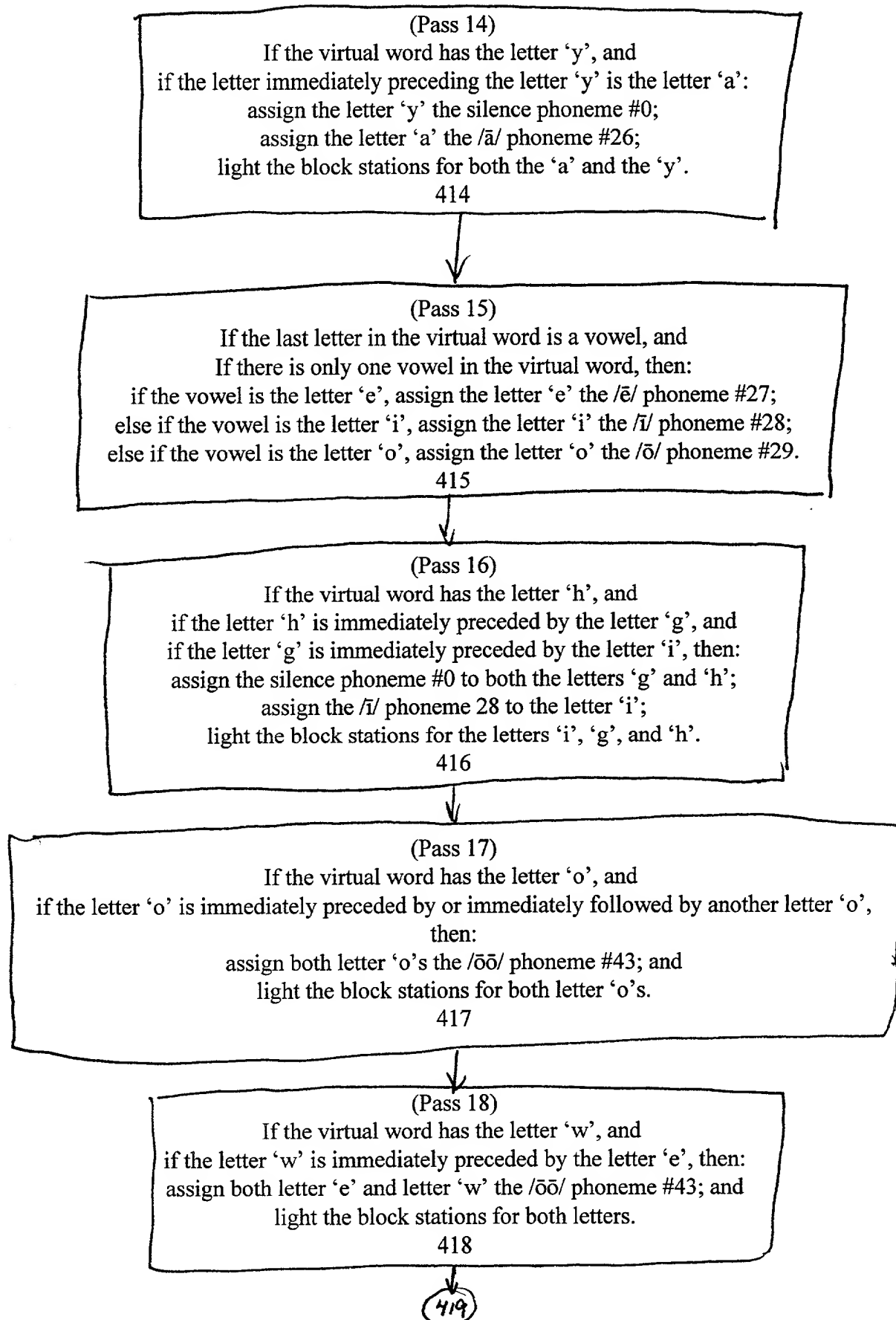


FIG. 11d

FIG. 11e

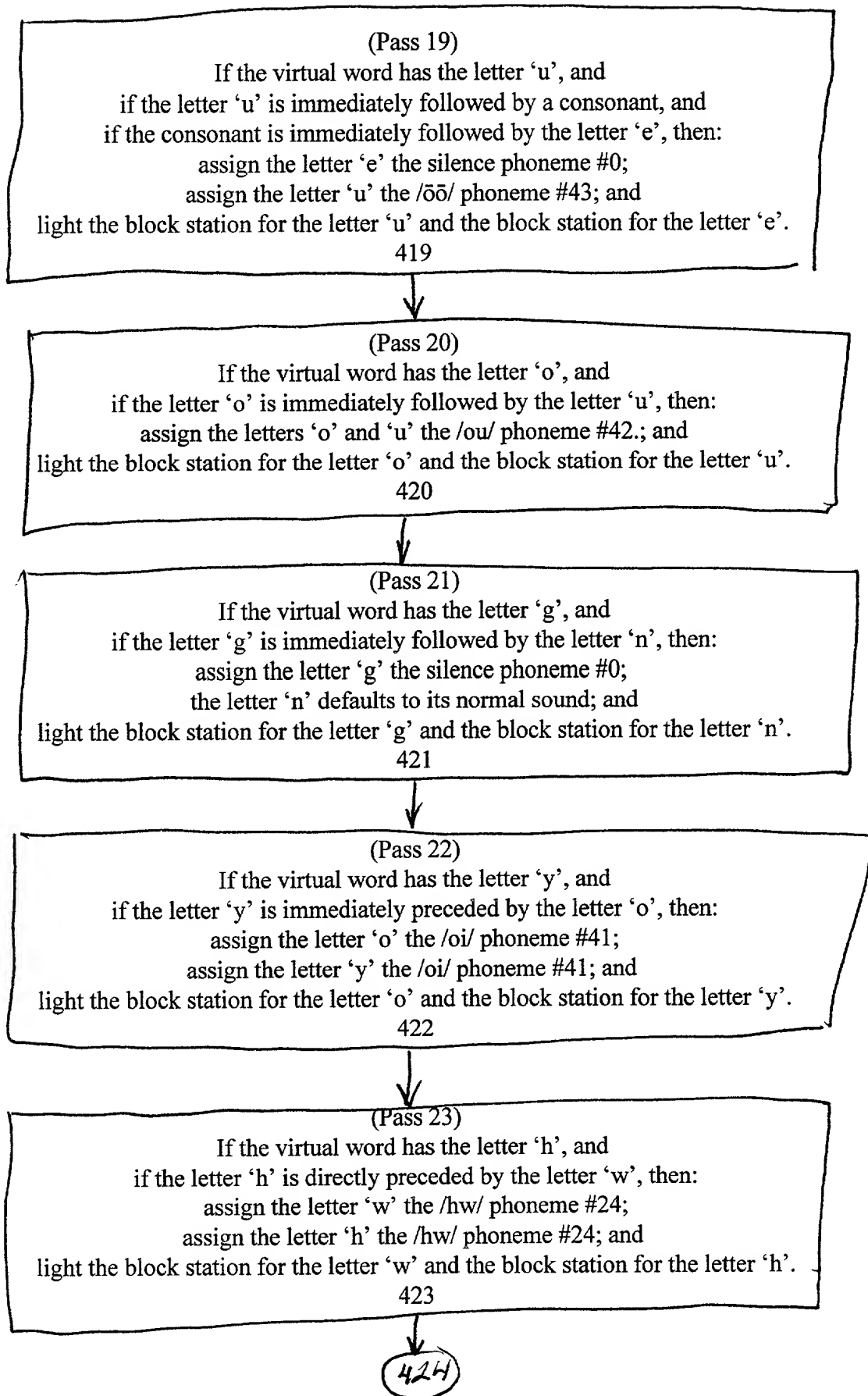


FIG. 11e

(Pass 24)

If the virtual word has two vowels, and
if the word ends in the letter 'e', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the silence phoneme #0;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block station for the letter 'e' and the block station for the vowel that directly
precedes the consonant.

424

(Pass 25)

If the virtual word has two vowels, and
if the word ends in the letters 'ed', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the silence phoneme #0;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block station for the letter 'e' and the block station for the vowel that directly
precedes the consonant.

425

426

FIG. 11f

426 427 428

(Pass 26)

If the virtual word has two vowels, and
if the word ends in the letters 'es', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the silence phoneme #0;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block station for the letter 'e' and the block station for the vowel that directly
precedes the consonant.

426



(Pass 27)

If the virtual word has two vowels, and
if the word ends in the letters 'er', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the /û/ phoneme #38;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block stations for the letters 'e' and 'r' and the block station for the vowel that
directly precedes the consonant.

427



FIG. 11g

(Pass 28)

If the virtual word has the letter 'u', and
if the letter 'u' is directly preceded by the letter 'q', then:
 assign the letter 'q' the /k/ phoneme #7;
 assign the letter 'u' the /w/ phoneme #16; and
light the block station for the letter 'q' and the block station for the letter 'u'.

428

(Pass 29)

If the virtual word has the letter 'p', and
if the letter 'p' is directly followed by the letter 'h', then:
 assign the letter 'p' the /f/ phoneme #3;
 assign the letter 'h' the /f/ phoneme #3; and
light the block station for the letter 'p' and the block station for the letter 'h'.

429

(Pass 30)

If the virtual word has the letter 'n', and
if the letter 'n' is directly followed by the letter 'g', then:
assign the letter 'n' the /ng/ phoneme #25;
assign the letter 'g' the /ng/ phoneme #25; and
light the block station for the letter 'n' and the block station for the letter 'g'.

430

(Pass 31)

If the virtual word has the letter 's', and
if the letter 's' is directly followed by the letter 'h', then:
 assign the letter 's' the /sh/ phoneme #20;
 assign the letter 'h' the /sh/ phoneme #20; and
light the block station for the letter 's' and the block station for the letter 'h'.

431

(Pass 32)

If the virtual word has the letter 't', and
if the letter 't' is directly followed by the letter 'h', then:
assign the letter 't' the /th/ phoneme #22;
assign the letter 'h' the /th/ phoneme #22; and
light the block station for the letter 't' and the block station for the letter 'h'.

432

433

Variable	Mean	SD	Min	Max
Age	38.5	12.5	25	65
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.5	0.5	0	1
Smoking status	0.5	0.5	0	1
Alcohol consumption	0.5	0.5	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.5	0.5	0	1
Sleep quality	0.5	0.5	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.5	0.5	0	1
Overall health	0.5	0.5	0	1
Physical activity	0.5	0.5	0	1
Mental health	0.5	0.5	0	1
Social support	0.5	0.5	0	1
Work-life balance	0.5	0.5	0	1
Financial stability	0.5	0.5	0	1
Family harmony	0.5	0.5	0	1
Personal growth	0.5	0.5	0	1
Community involvement	0.5	0.5	0	1
Environmental awareness	0.5	0.5	0	1
Cultural appreciation	0.5	0.5	0	1
Artistic expression	0.5	0.5	0	1
Volunteer work	0.5	0.5	0	1
Charitable contributions	0.5	0.5	0	1
Philanthropic activities	0.5	0.5	0	1
Leadership roles	0.5	0.5	0	1
Networking opportunities	0.5	0.5	0	1
Professional development	0.5	0.5	0	1
Continuous learning	0.5	0.5	0	1
Adaptability to change	0.5	0.5	0	1
Resilience to stress	0.5	0.5	0	1
Emotional regulation	0.5	0.5	0	1
Conflict resolution skills	0.5	0.5	0	1
Effective communication	0.5	0.5	0	1
Team collaboration	0.5	0.5	0	1
Problem-solving abilities	0.5	0.5	0	1
Decision-making skills	0.5	0.5	0	1
Time management	0.5	0.5	0	1
Organization skills	0.5	0.5	0	1
Attention to detail	0.5	0.5	0	1
Initiative and proactivity	0.5	0.5	0	1
Accountability and responsibility	0.5	0.5	0	1
Integrity and honesty	0.5	0.5	0	1
Empathy and compassion	0.5	0.5	0	1
Respect for others	0.5	0.5	0	1
Open-mindedness	0.5	0.5	0	1
Critical thinking	0.5	0.5	0	1
Logical reasoning	0.5	0.5	0	1
Analytical skills	0.5	0.5	0	1
Strategic thinking	0.5	0.5	0	1
Goal setting and achievement	0.5	0.5	0	1
Perseverance and determination	0.5	0.5	0	1
Self-motivation	0.5	0.5	0	1
Positive attitude	0.5	0.5	0	1
Optimism	0.5	0.5	0	1
Gratitude	0.5	0.5	0	1
Forgiveness	0.5	0.5	0	1
Humility	0.5	0.5	0	1
Patience	0.5	0.5	0	1
Kindness	0.5	0.5	0	1
Generosity	0.5	0.5	0	1
Altruism	0.5	0.5	0	1
Cooperativeness	0.5	0.5	0	1
Flexibility	0.5	0.5	0	1
Adaptability	0.5	0.5	0	1
Resilience	0.5	0.5	0	1
Stress management	0.5	0.5	0	1
Emotional stability	0.5	0.5	0	1
Self-awareness	0.5	0.5	0	1
Intuition	0.5	0.5	0	1
Inner peace	0.5	0.5	0	1
Mental clarity	0.5	0.5	0	1
Focus and concentration	0.5	0.5	0	1
Memory retention	0.5	0.5	0	1
Learning ability	0.5	0.5	0	1
Creativity and innovation	0.5	0.5	0	1
Imagination	0.5	0.5	0	1
Artistic talent	0.5	0.5	0	1
Writing skills	0.5	0.5	0	1
Public speaking	0.5	0.5	0	1
Leadership qualities	0.5	0.5	0	1
Team spirit	0.5	0.		

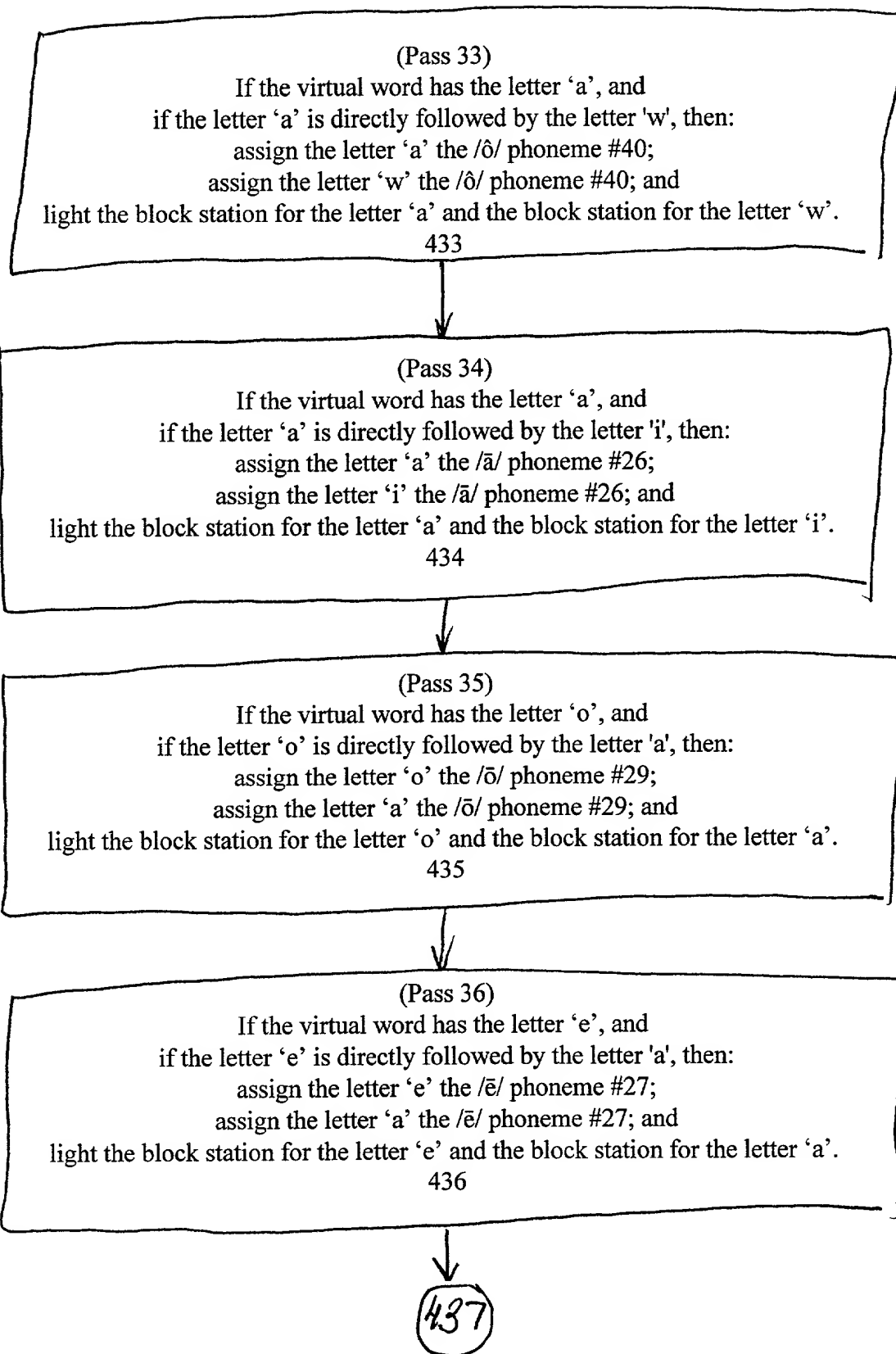


FIG. 11i

FIG. 11j

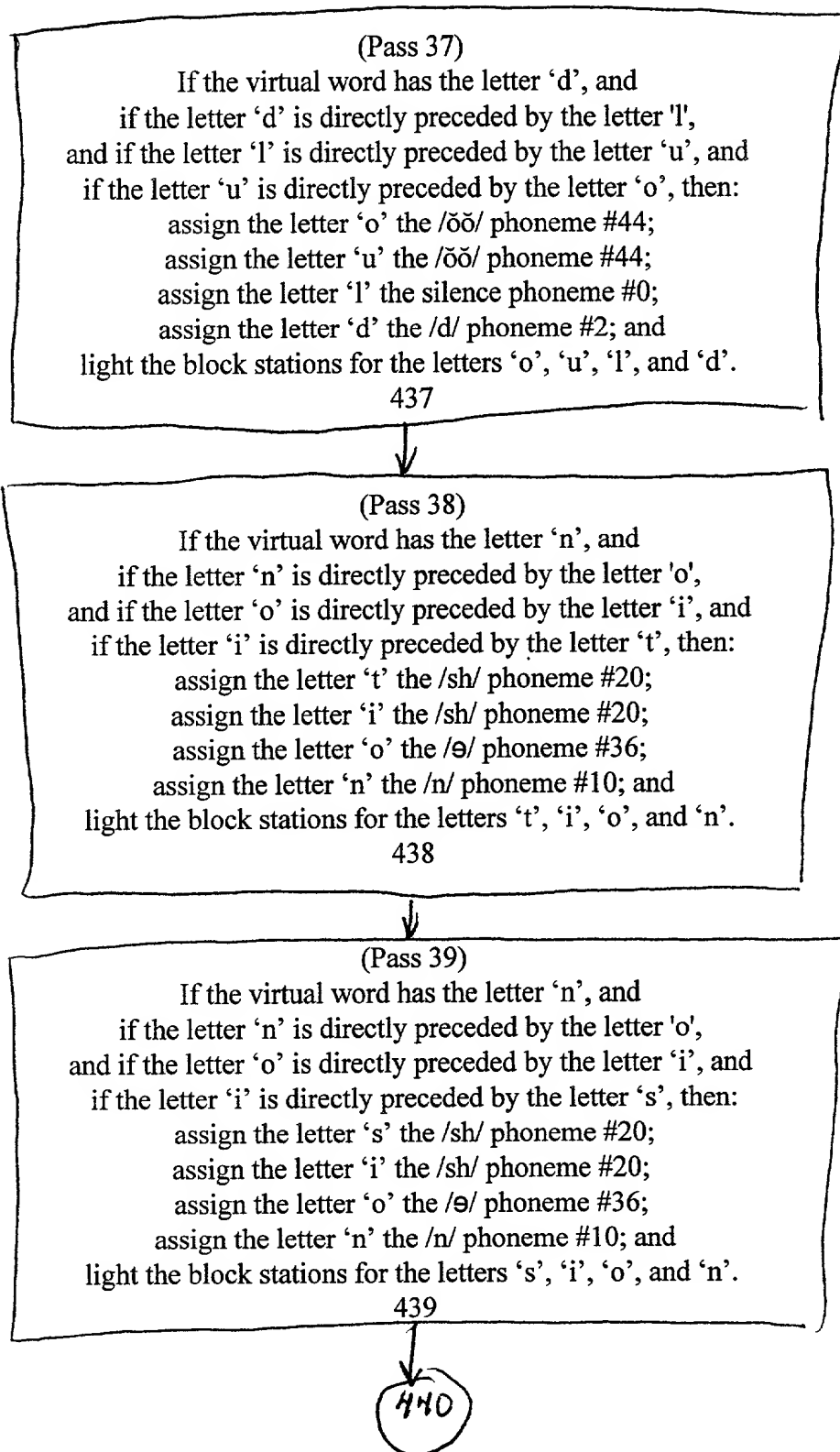


FIG. 11j

FIG. 11k

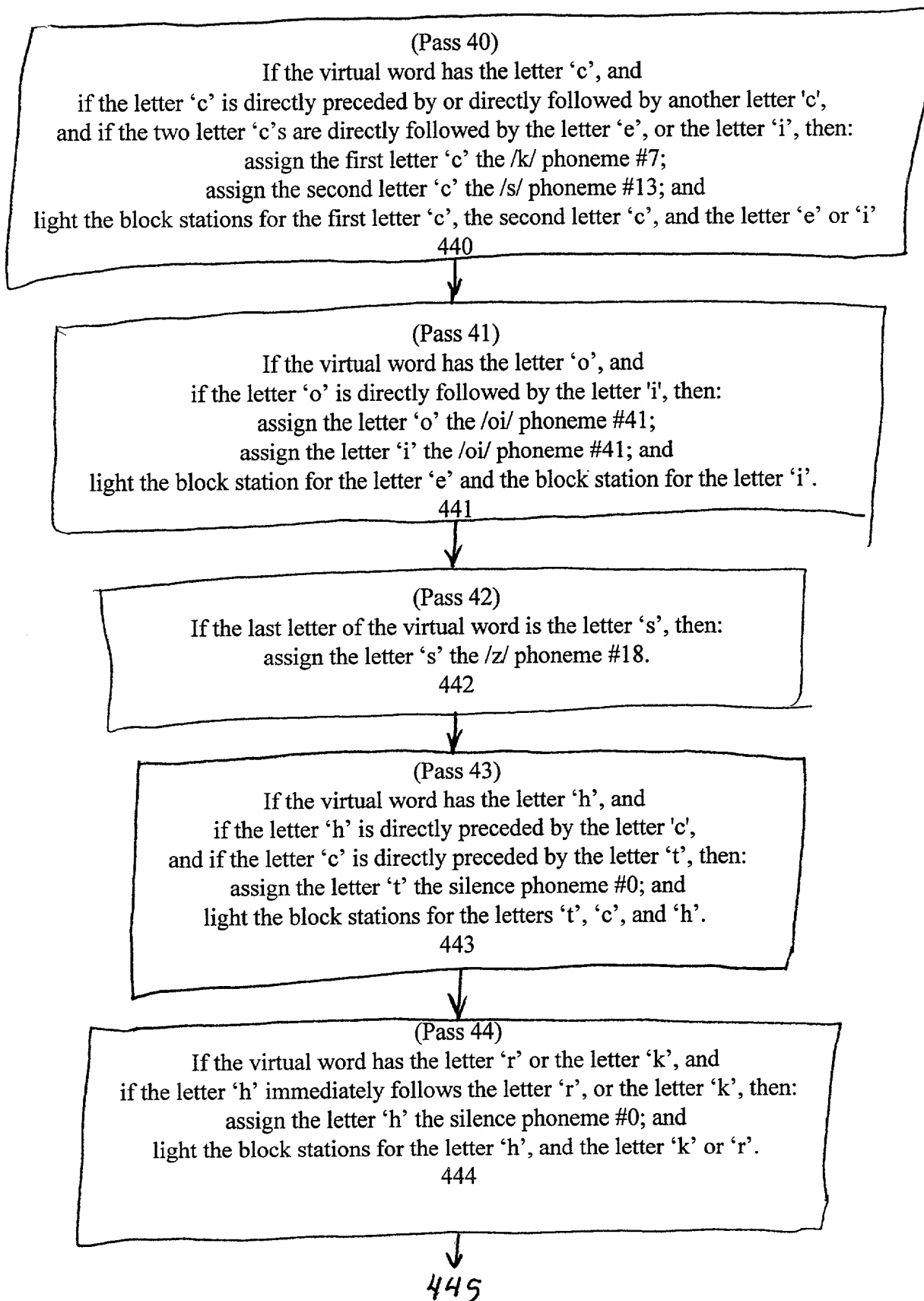


FIG. 11k

FIG. 11

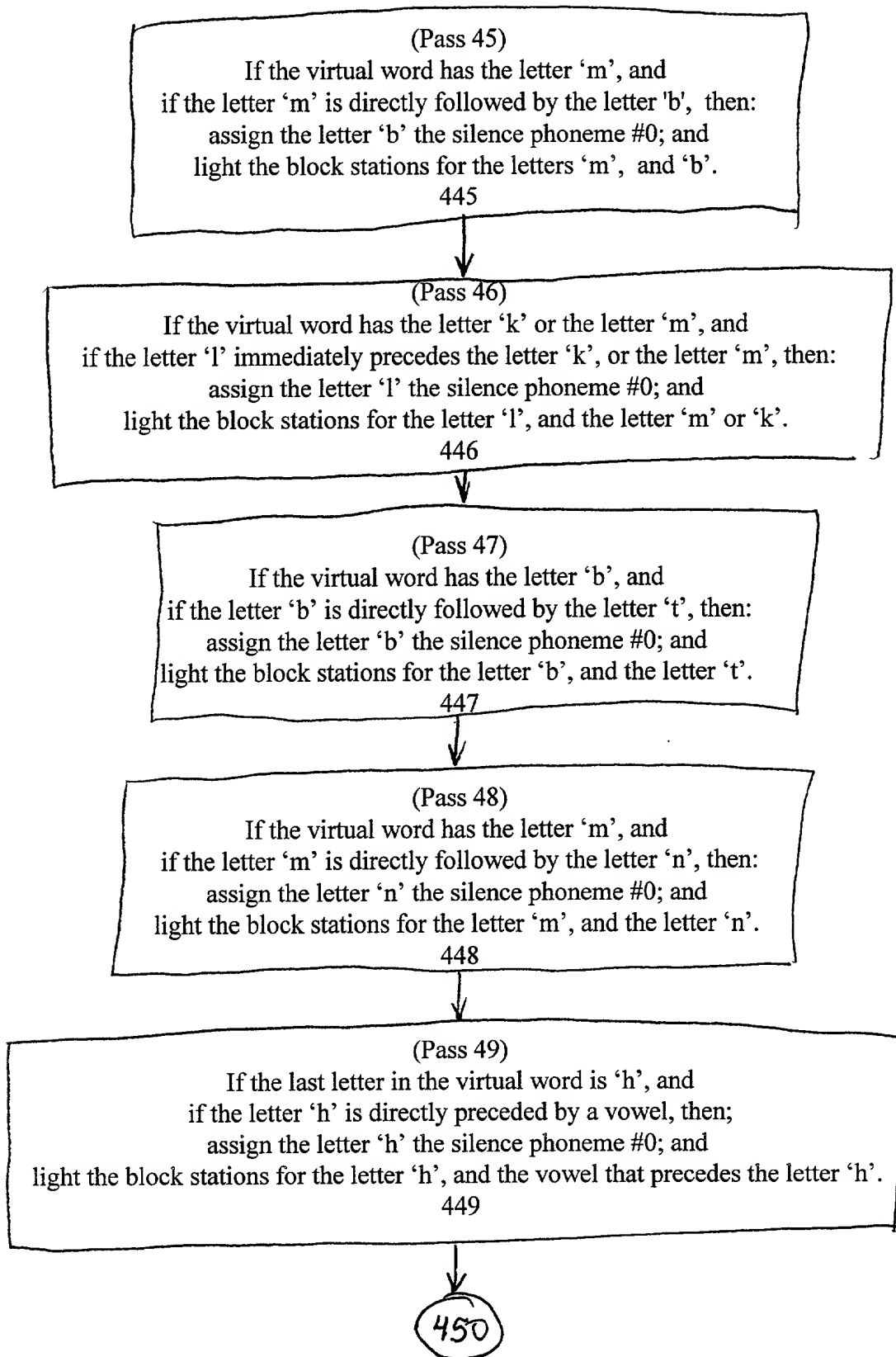


FIG. 11

FIG. 11m

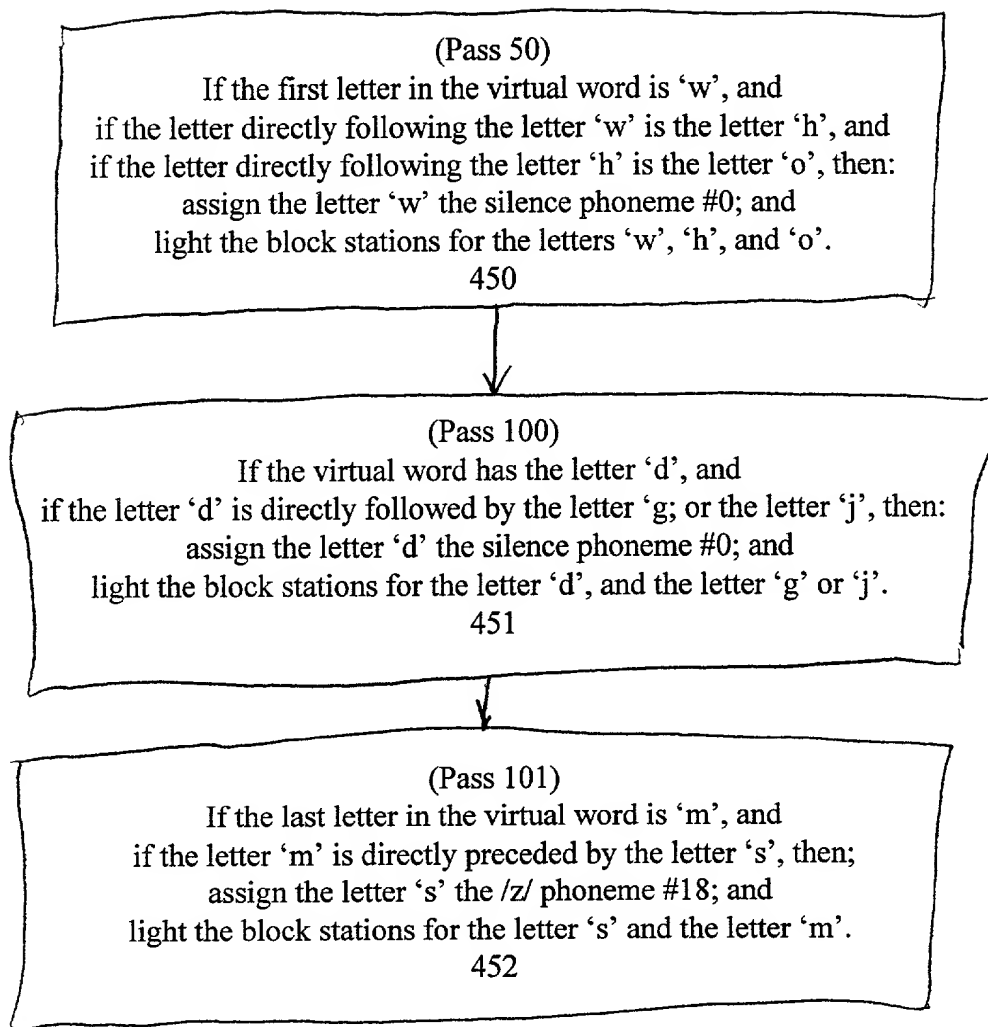


FIG. 11m

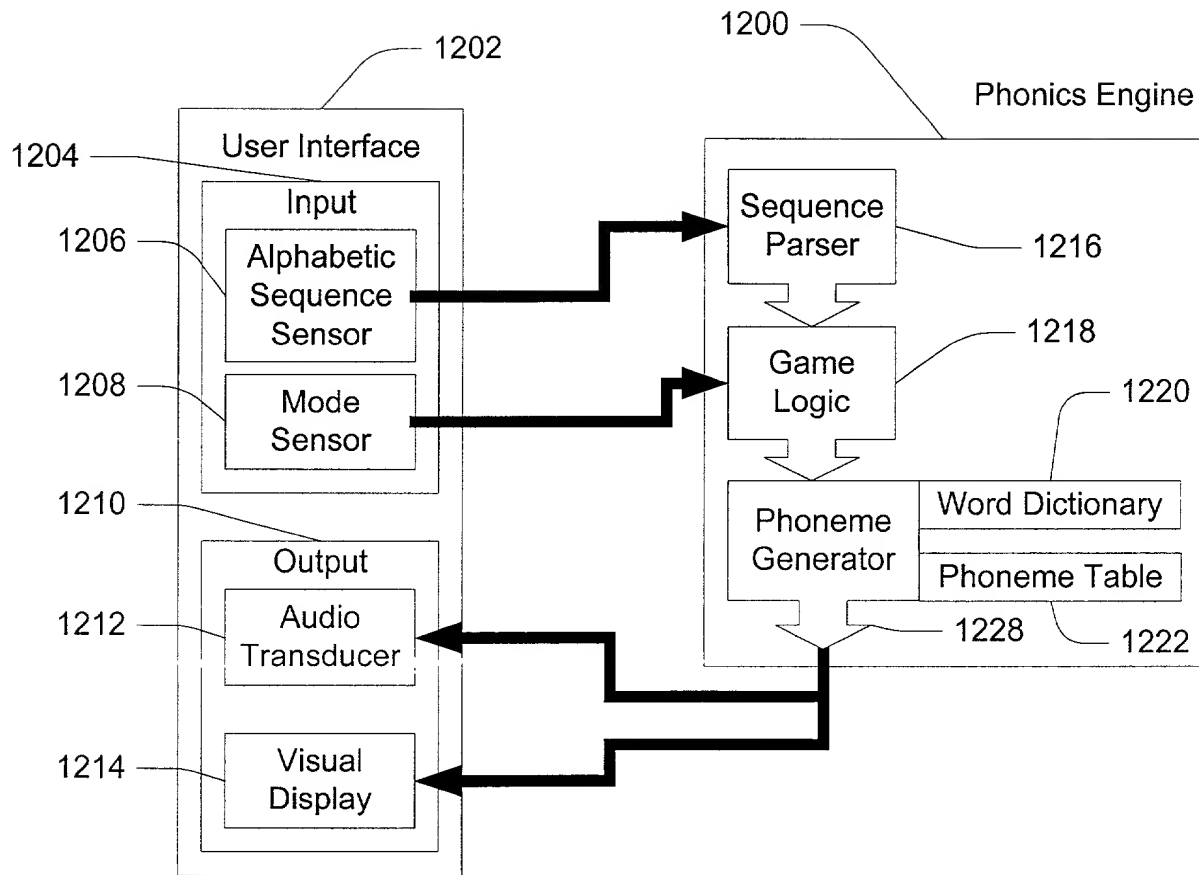


FIG. 12

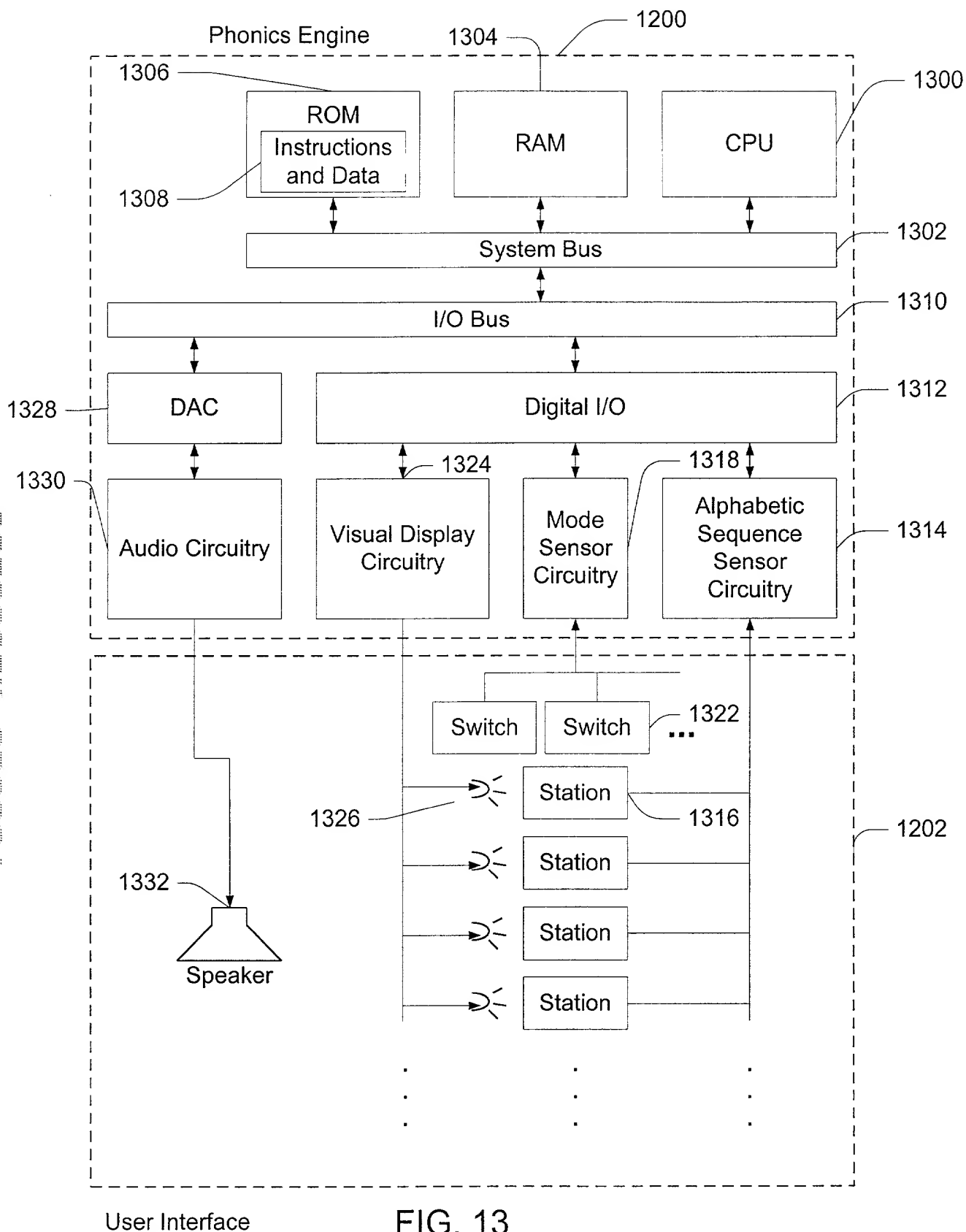


FIG. 13

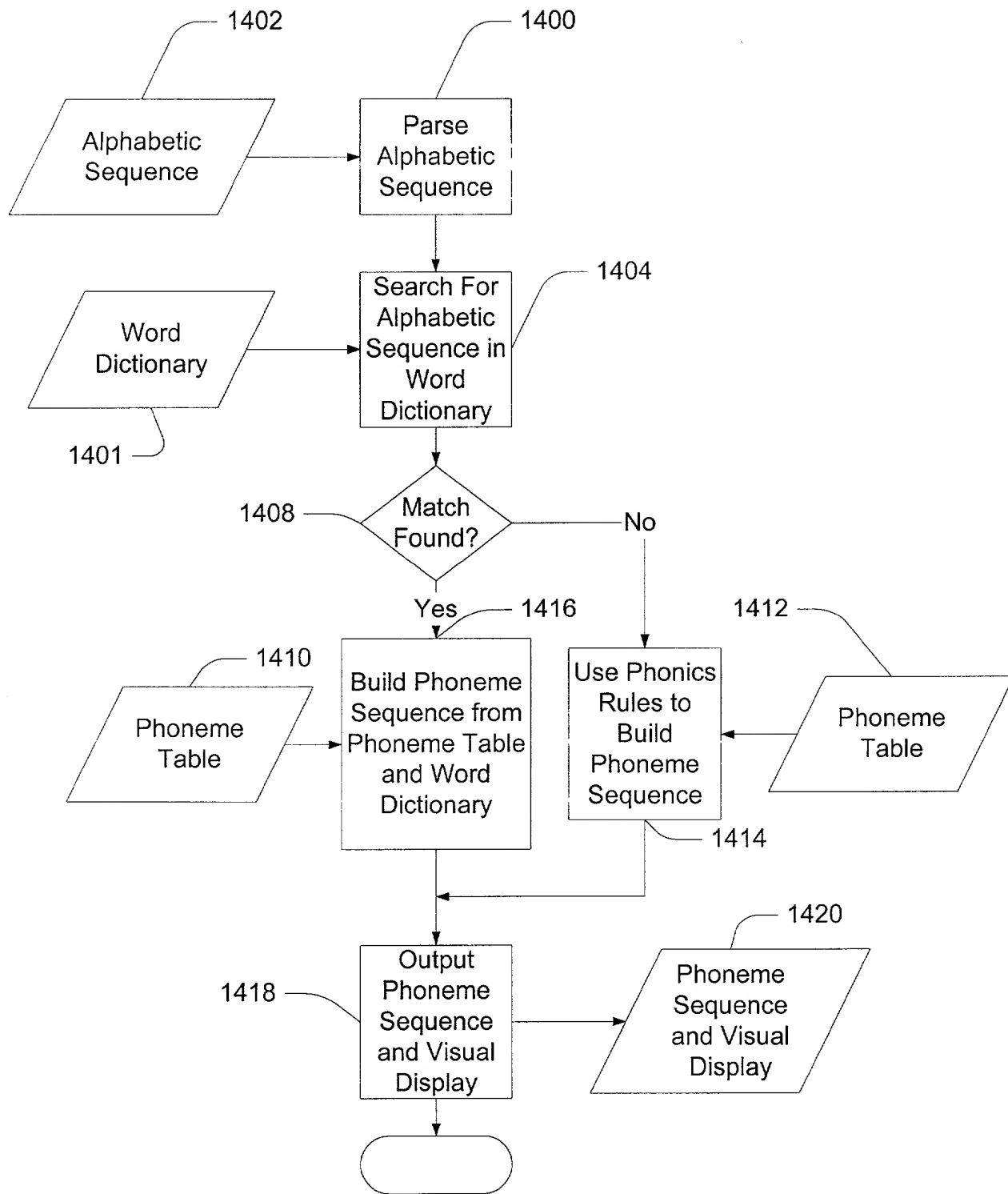


FIG. 14

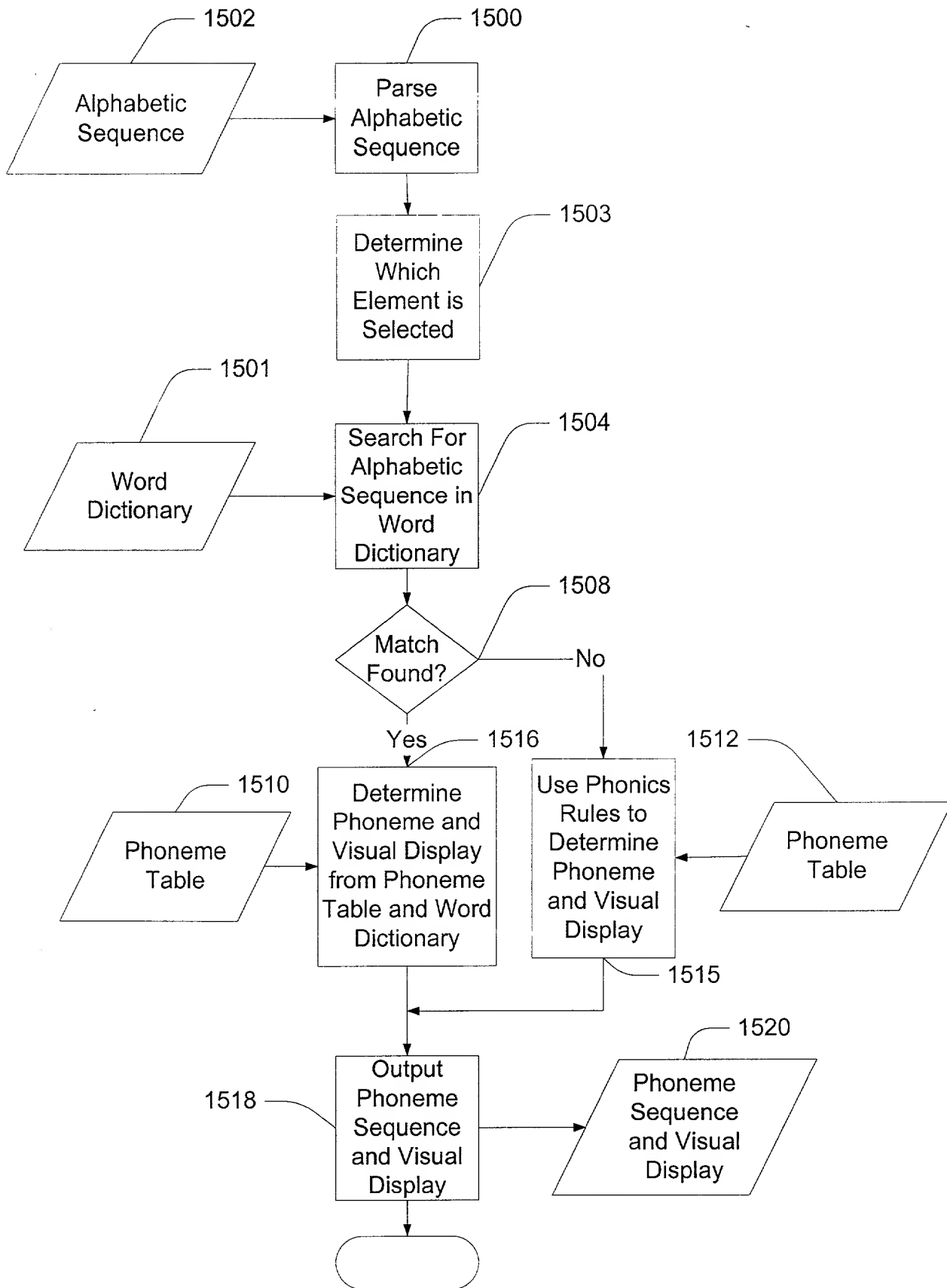


FIG. 15